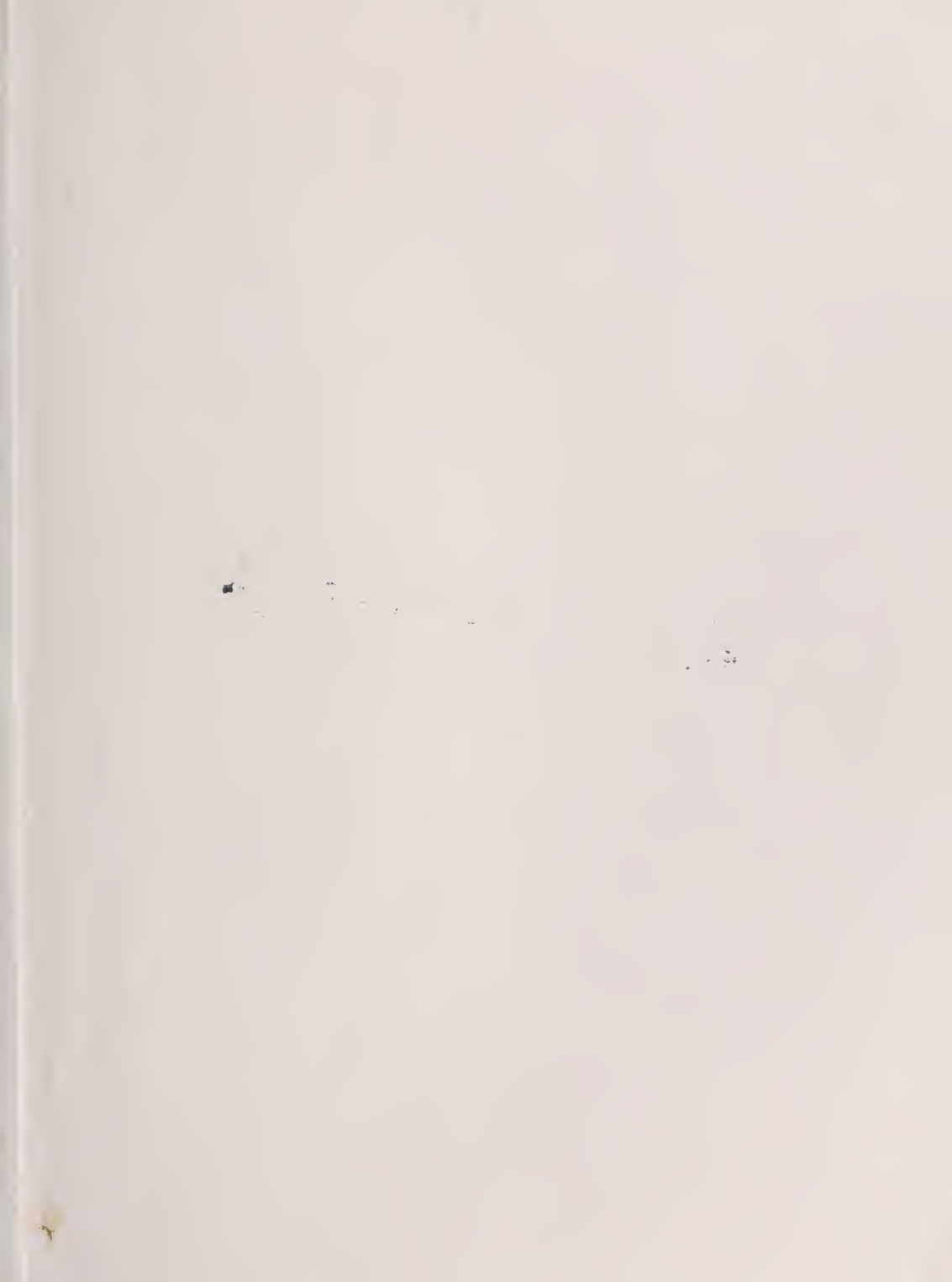




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STATE OF CALIFORNIA
The Resources Agency
Department of Water Resources

BULLETIN No. 130-75

HYDROLOGIC DATA: 1975
Volume IV: SAN JOAQUIN VALLEY

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OCTOBER 1976

CLAIRE T. DEDRICK
Secretary for Resources
The Resources Agency

EDMUND G. BROWN JR.
Governor
State of California

RONALD B. ROBIE
Director
Department of Water Resources

**VOLUME I
NORTH COASTAL
AREA**

**VOLUME II
NORTHEASTERN
CALIFORNIA**

**VOLUME III
CENTRAL
COASTAL
AREA**

**VOLUME IV
SAN JOAQUIN
VALLEY**

BULLETIN No. 130

**HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES**

Each Volume Contains

Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality

This Volume



**VOLUME V
SOUTHERN CALIFORNIA**

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-75 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series has been published annually in five volumes since 1963. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

This Bulletin No. 130-75 is the last of this series to be published. It is to be replaced with a statewide Bulletin 130, "Hydrologic Data Index", which will show what data are available and where they may be obtained.



Ronald B. Robie, Director
Department of Water Resources
State of California

CONVERSION FACTORS

English to Metric System of Measurement

Quantity	English unit	Multiply by	To get metric equivalent
Length	inches (in)	25.4	millimetres (mm)
		.0254	metres (m)
	feet (ft)	.3048	metres (m)
	miles (mi)	1.6093	kilometres (km)
Area	square inches (in ²)	6.4516×10^{-4}	square metres (m ²)
	square feet (ft ²)	.092903	square metres (m ²)
	acres	4046.9	square metres (m ²)
		.40469	hectares (ha)
		.40469	square hectometres (hm ²)
		.0040469	square kilometres (km ²)
	square miles (mi ²)	2.590	square kilometres (km ²)
Volume	gallons (gal)	3.7854	litres (l)
		.0037854	cubic metres (m ³)
	million gallons (10 ⁶ gal)	3785.4	cubic metres (m ³)
	cubic feet (ft ³)	.028317	cubic metres (m ³)
	cubic yards (yd ³)	.76455	cubic metres (m ³)
	acre-feet (ac-ft)	1233.5	cubic metres (m ³)
		.0012335	cubic hectometres (hm ³)
		1.233×10^{-6}	cubic kilometres (km ³)
Volume/Time			
(Flow)	cubic feet per second (ft ³ /s)	28.317	litres per second (l/s)
		.028317	cubic metres per second (m ³ /s)
	gallons per minute (gal/min)	.06309	litres per second (l/s)
		6.309×10^{-5}	cubic metres per second (m ³ /s)
	million gallons per day (mgd)	.043813	cubic metres per second (m ³ /s)
Mass	pounds (lb)	.45359	kilograms (kg)
	tons (short, 2,000 lb)	.90718	tonne (t)
		907.18	kilograms (kg)
Power	horsepower (hp)	0.7460	kilowatts (kW)
Pressure	pounds per square inch (psi)	6894.8	pascal (Pa)
Temperature	Degrees Fahrenheit (°F)	$\frac{t_F - 32}{1.8} = t_C$	Degrees Celsius (°C)

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1	Ground Water Areas and Selected Observation Wells
2	Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951 and 1975
3	Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1975
4.	Lines of Equal Change of Water Levels in Wells, Pressure Surface and Unconfined Aquifers, San Joaquin Valley, Spring 1970 to Spring 1975

State of California
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Buena Vista Water Storage District
Modesto Irrigation District
Turlock Irrigation District
Oakdale Irrigation District
Merced Irrigation District
Fresno Irrigation District
Kings River Water Association
Central California Irrigation District
Tule River Association
Fresno County Health Department
Kern County Health Department
Tulare County Health Department
Kern County Parks and Recreation Department
Kings County Water District

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1974-75 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1975; profile of ground water levels; ground water areas; and well locations.

APPENDIX A
CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation data in the San Joaquin Valley from July 1, 1974, to September 30, 1975, for stations which are not published by the National Weather Service. Also presented are annual precipitation values from 33 storage gages.

Figure A-1 shows the general location of all climatological observation stations in the San Joaquin Valley for which data are available in department files or files of the National Weather Service.

Table A-1 presents an explanation of column headings and code symbols used, and an index of climatological stations as shown on Figure A-1.

Table A-2 presents monthly precipitation data on 162 of the stations shown in the index.

Table A-3 presents storage gage precipitation data.

Precipitation data for stations shown in the index as still active and not published in this appendix are either published by the National Weather Service, or were not available at time of this publication.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

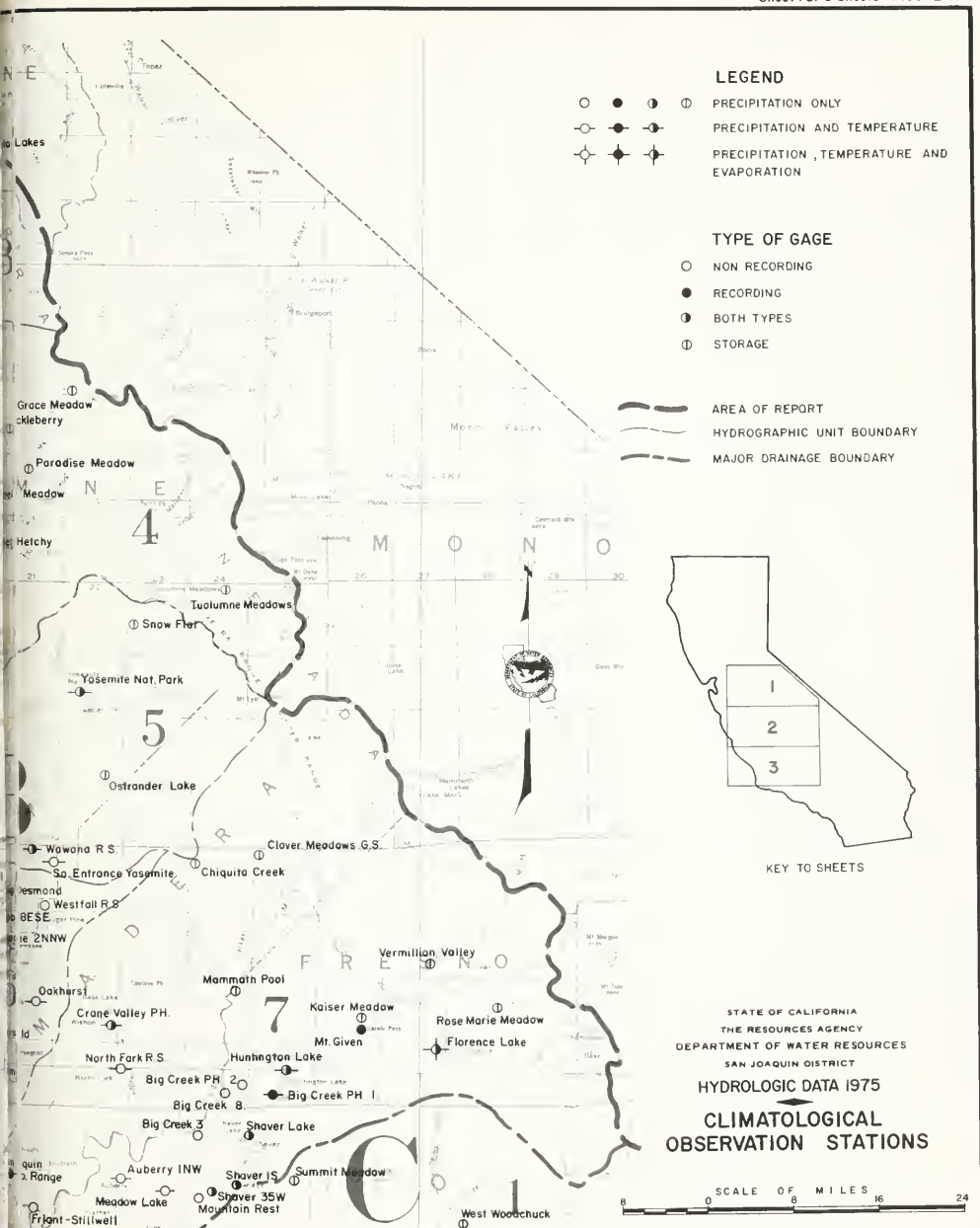
SAN JOAQUIN RIVER BASIN

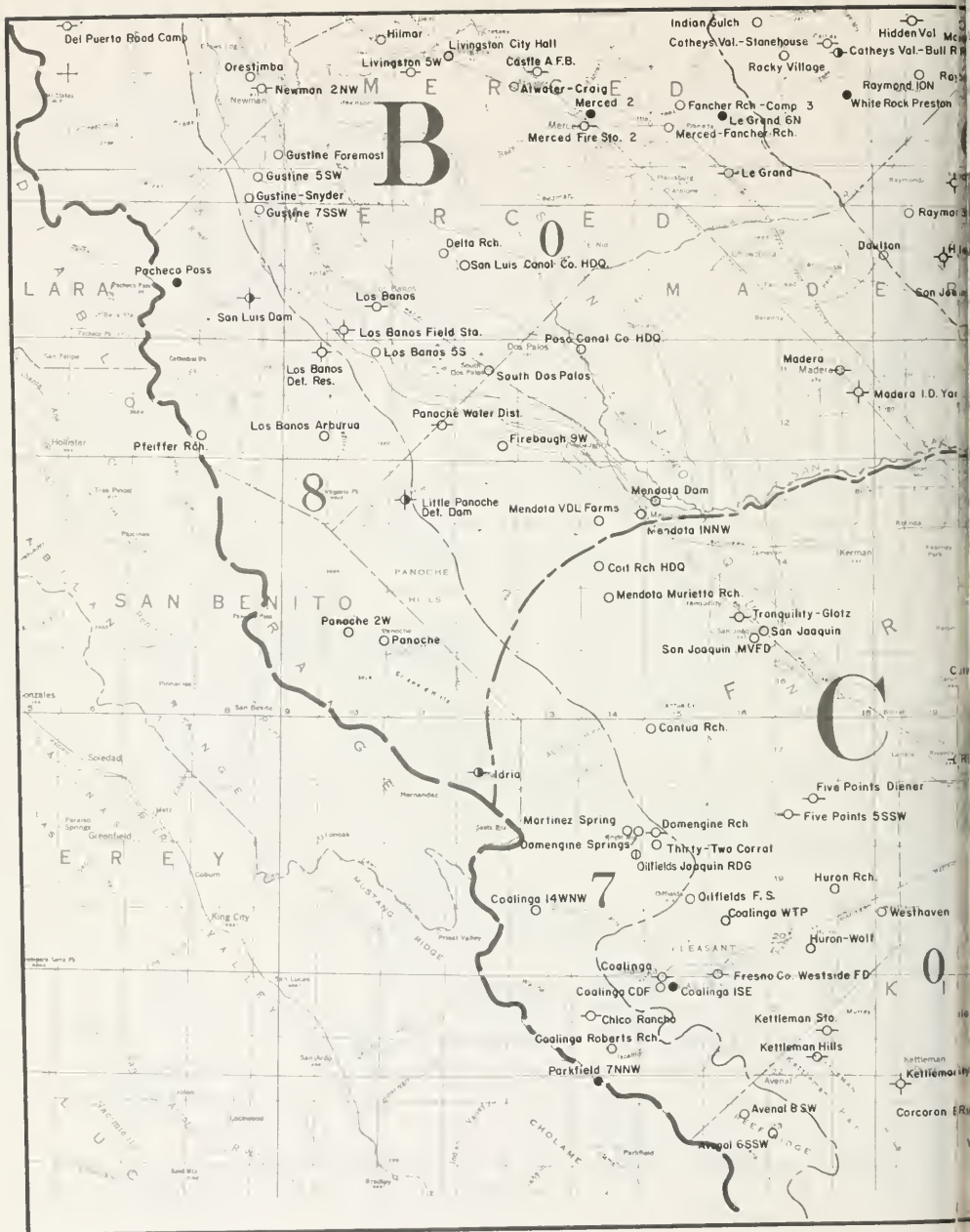
B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

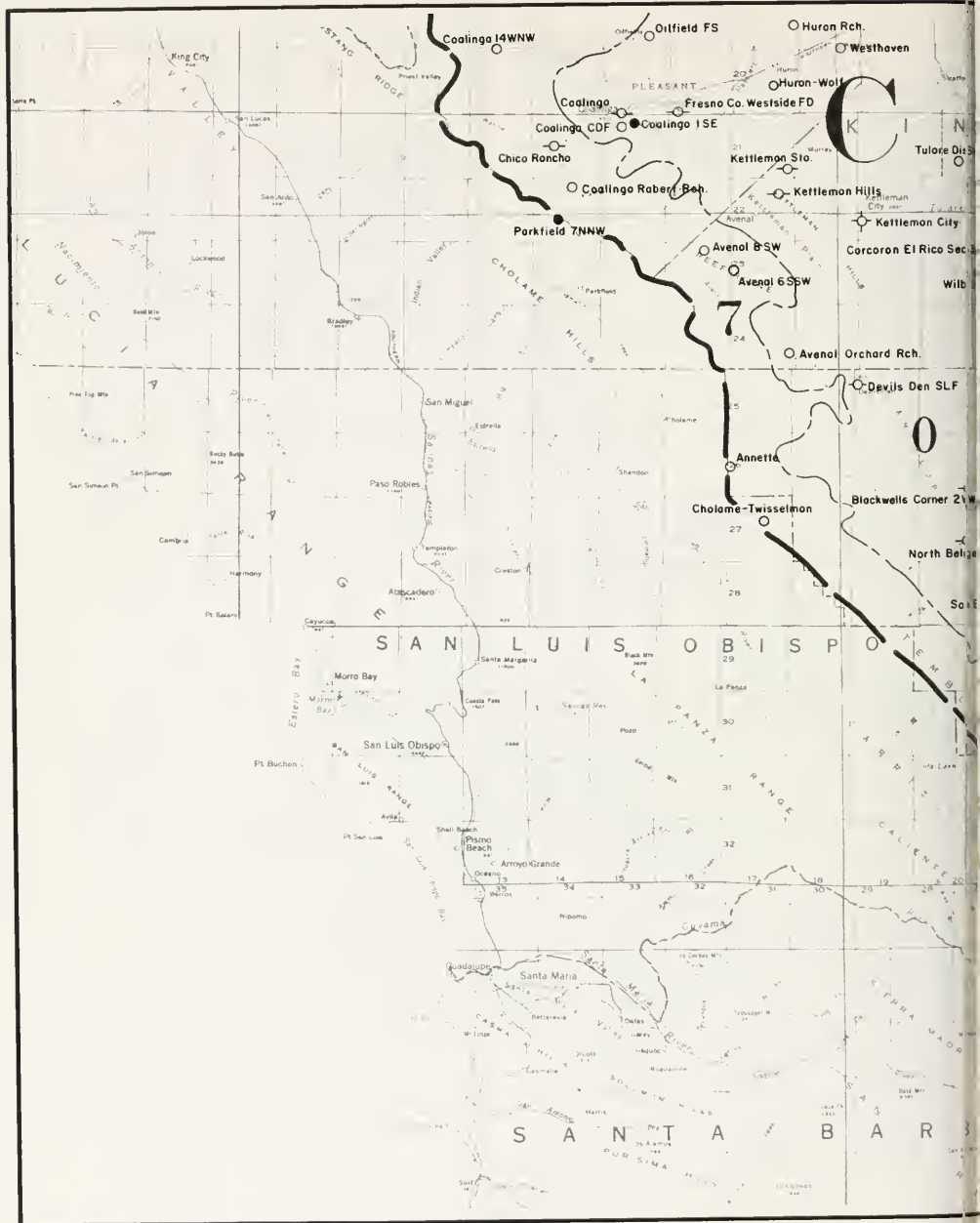
HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side







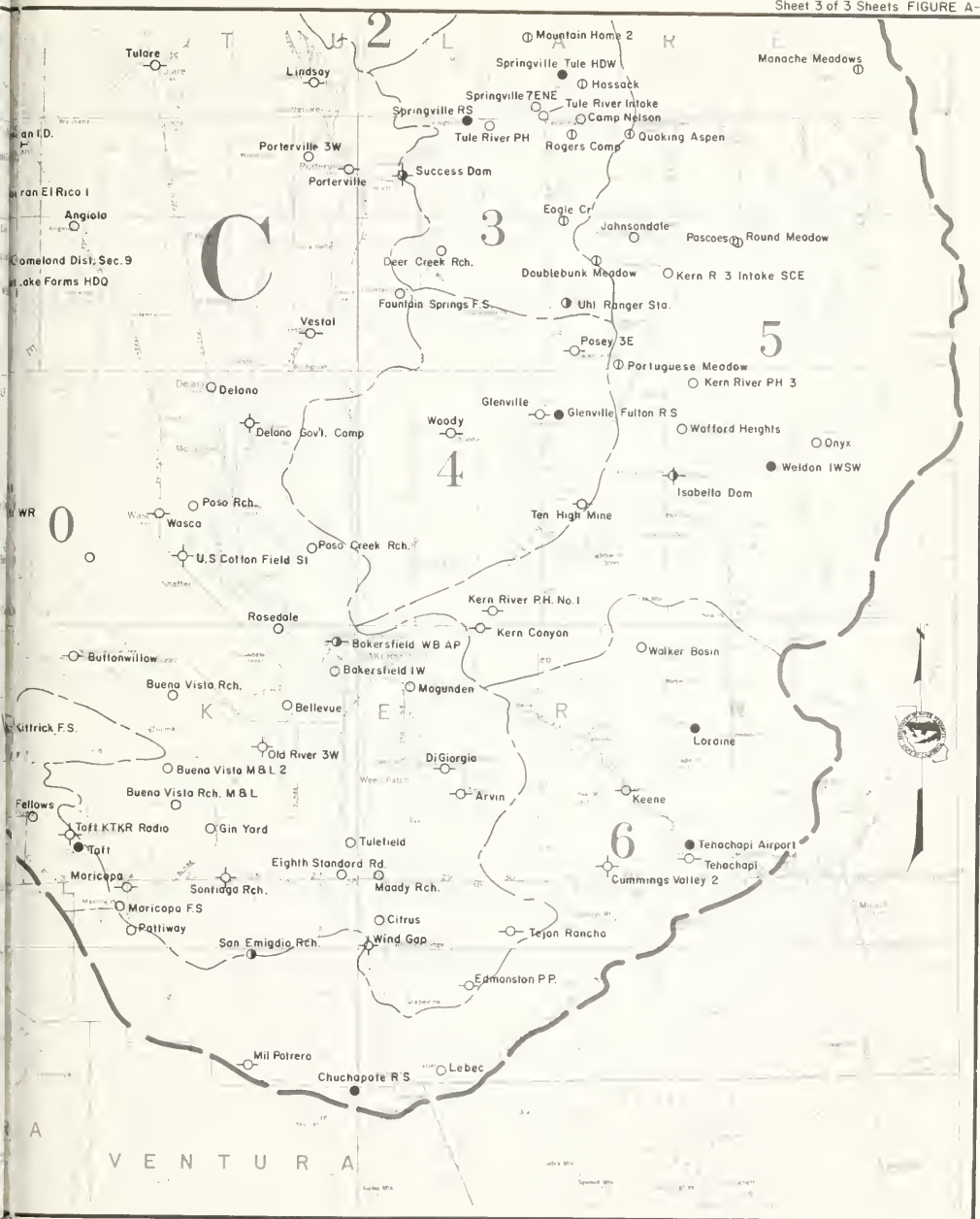




TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

- 000 - Private Cooperators
- 001 - 399 Private Agencies
 - 001 Kern County Land Company
 - 002 Boswell Company
 - 003 Pacific Gas and Electric Company
 - 004 Southern California Edison Company
 - 005 California Electric Power Company
 - 010 Amateur Radio Weather Network KTRB
 - 011 Southern Pacific Transportation Company
 - 012 Miller and Lux, Inc.
 - 013 Central California Irrigation District
- 400 - 799 Counties and municipalities
 - 401 Hetch Hetchy Water Supply
 - 404 Oakdale Irrigation District
 - 405 City of Los Angeles, Department of Water & Power
 - 420 Stanislaus County
- 800 - 899 State
 - 801 Pomology Department, University of California, Davis
 - 804 Department of Parks and Recreation
 - 805 Department of Fish and Game
 - 806 Department of Water Resources
 - 808 Division of Forestry
 - 809 Department of Transportation

TABLE A-1 (Cont.)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	National Weather Service
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	National Weather Service (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the National Weather Service stations are the same as those used by the National Weather Service. The National Weather Service station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude		Longitude		Cooperator's Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code	
Number	Name						I	II	I	II							
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P	M	36	52	58	119	32	25	000	1958	1970	10
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E	M	M	37	23	22	119	44	07	907	1959		20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	M	35	59	25	119	28	42	000	1899		54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	F	M	38	04	20	120	32	18	003	1908		05
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	M	35	38	48	120	10	12	000	1952	1974	15
C0 0332	ARVIN	445	SEC 23	T31S	R29E	M	M	35	12	00	118	49	00	000	1936		15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	M	36	29	30	118	49	35	900	1925		54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E	M	M	37	21		120	37		000	1961	1969	24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E	M	M	36	28	00	118	40	00	900	1948		54
B7 0379	AUBERRY 1 NW	2010	SEC 06	T10S	R23E	A	M	37	05	40	119	29	50	900	1915		10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	M	35	48	23	120	05	18	000	1919		16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	M	35	57	33	120	13	25	000	1957		16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	M	35	55	30	120	10	05	000	1953		16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	M	36	37	53	119	00	46	900	1940		54
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	M	35	22	41	119	02	17	900	1913	1969	15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	M	35	25	38	119	02	34	900	1933		15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	M	36	54	33	119	05	15	900	1921		10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E	M	M	36	49		118	53		900	1961	1973	10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E	M	38	27	45	120	02	30	000	1967		02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E	M	M	37	34		120	07		903	1960		22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E	M	M	38	12	12	120	04	30	404	1959		55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E	M	M	36	41	00	118	52	00	900	1959		54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E	F	M	38	00	00	119	47	00	000	1947	1971	55
C0 0631	BELLEVEUE	369	SEC 07	T30S	R27E	B	M	35	20	11	119	05	27	001	1961	1969	15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	M	36	41	05	119	01	50	000	1967	1973	10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	M	37	12	15	119	14	20	900	1915		10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	M	37	11	59	119	18	19	004	1913		10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	M	37	08	54	119	23	00	004	1922		10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	M	37	12	00	119	20	00	004	1921		10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L	M	35	37	15	119	53	40	900	1944		13 15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E	M	M	36	57	37	119	26	45	808	1961		10
C1 1069-11	BRETZ HILL	3250	SEC 27	T10S	R25E	D	M	37	02	18	119	14	24	905	1960	1967	10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	M	35	21	00	119	19	00	001	1944	1969	15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	M	35	11	42	119	11	43	002	1955		15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	M	35	14	25	119	18	23	002	1962		15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K	M	35	24	00	119	28	00	900	1940		15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	M	38	11	50	120	21	55	900	1944		05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R	M	36	08	17	118	37	36	000	1959	1970	54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	M	36	28	35	120	23	20	000	1955		10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	M	36	32	48	119	45	30	000	1960	1971	10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	M	37	22	03	120	34	20	902	1951		24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 34	T06S	R17E	H	M	37	23	56	120	03	08	900	1940		22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	M	37	28	33	120	06	33	000	1957		22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	M	37	24	30	120	05	00	000	1951	1970	22
C5 1647	CHAGOPA	10390		T16S	R33E	M	M	36	30		118	27		901	1964		54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	M	37	58	00	119	55	00	900	1955		55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	M	36	05	13	120	29	22	000	1969		10
B7 1737	CHIQUITO CREEK	7290	SEC 07	T05S	R24E	N	M	37	30	20	119	23	21	900	1961		20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E	R	M	35	35	00	120	07	00	000	1951		40
B6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W	S	M	34	48	00	119	01	00	900	1941		56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	S	35	02	18	118	58	28	001	1963	1969	15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E	M	M	37	32		119	17		900	1946		20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	M	36	09	00	120	21	00	900	1942		10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	M	36	02	18	120	26	40	000	1953		10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J	M	36	07	39	120	20	38	900	1911		10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E	M	M	36	14	00	120	34	00	900	1949		10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	M	36	08	03	120	22	00	808	1961		10
B6 1878	CORSEBOLD	2363	SEC 05	T08S	R21E	M	M	37	16	00	119	42	00	907	1952		20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	M	36	42	20	120	28	25	000	1954		10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N	M	38	02	22	120	24	37	000	1969		55
B3 2003	COPPERPOLIS	1000	SEC 34	T02N	R12E	K	M	37	59	00	120	38	00	903	1954		03 05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	M	36	05	53	119	34	51	900	1912		16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	E	M	36	02	36	119	38	42	002	1958		16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	M	35	57	49	119	42	14	002	1951	1969	16
B5 2072	COUTERVILLE FFS	1870	SEC 33	T02S	R16E	A	M	37	43	25	120	12	12	808	1959		22
C5 2114	CRAFTREE MEADOW	10700	SEC 01	T16S	R33E	M	M	36	34	00	118	21	00	000	1948		54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	M	37	17	26	119	31	35	003	1903		20
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	M	35	07		118	35		806	1961	1973	15
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	M	37	07	18	119	59	00	000	1946		20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R	M	35	57	15	118	51	28	000	1968	1969	54

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900	1876		15	
C0 2346-01	DELANO GOV T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904	1952		15	
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37	25	24	121	22	42	900	1958		50	
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E	M	37	07	00	120	44	00	013		1949		01	24
B0 2389-05	DENAIR 3 NNE	137	SEC 20	T04S	R11E	M	37	34		120	47		900		1964		24	50
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000	1965		24	
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000	1959		15	
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000	1937		15	
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D	M	36	32	32	119	23	30	000	1944		54	
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000	1959	1972	10	
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000	1958	1970	10	
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904	1940		55	
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E	M	M	35	57	00	118	36	00	900	1955	1970	54	
B5 2539	DUDDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900	1909		22	
C1 2577	DUGLY BENCH	9470		T10S	R31E	M	M	37	06		118	35		900	1964		10	
C3 2591	EAGLE CREEK	6650		T22S	R31E	M	M	35	59		118	39		903	1964		54	
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401	1925		55	
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E	M	M	35	06	05	119	01	45	001	1963	1969	15	
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000	1953	1972	50	
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000	1944		39	
B5 2920	EXCHIEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900	1935		22	
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900	1938		54	
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000	1959		24	
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000	1956		15	
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000	1934	1969	10	
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900	1942		10	
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000	1933		10	
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900	1940		10	
C0 3207	FOUNTAIN SPRINGS F S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	008	1965		54	
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900	1899		10	
C0 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806	1963		10	
B7 3261	FRANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900	1896		10	
B7 3261-05	FRANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	119	38	48	000	1965		20	
C2 3397	FRANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900	1921		54	
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002	1960		15	
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900	1951		15	
C4 3465	GLENNVILLE FULTON R S	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900	1940		15	
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E	M	M	38	09	00	119	36	00	900	1947	1970	55	
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900	1924		54	
B5 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000	1965		22	
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900	1940		55	
B4 3672	GROVELAND R S	1135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900	1940		55	
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000	1927		24	
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000	1930		24	
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000	1928		24	
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000	1958		24	
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900	1899	1970	16	
C0 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36	18	59	119	39	10	000	1964		16	
C1 3811-11	HASLET BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905	1960		10	
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900	1910		55	
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000	1949		22	
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900	1960		02	
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000	1948		24	
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E	M	M	36	22	00	118	39	00	900	1959		54	
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E	M	M	37	48		119	52		907	1967		55	
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002	1952	1969	16	
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000	1955		22	
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000	1939		22	
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901	1960		22	
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E	M	M	36	11	00	118	37	00	000	1959		54	
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E	E	M	38	06	00	119	45	00	900	1948	1971	55	
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900	1950		05	
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900	1915		10	
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E	M	M	36	15	10	120	06	05	000	1951		10	
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900	1918		35	
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	48	120	11	46	000	1952	1970	22	
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M	35	38	18	118	28	45	903	1949		15	
C0 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R	M	36	24	15	119	12	21	000	1954		54	
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E	M	M	37	32	36	119	50		905	1958		22	
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900	1954		54	

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Index Number	Record Begin	Record Ended	Years Missing	County Code
Number	Name													
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E	M 37 18 00	119 06 00	900			1946			10
C2 4452	WEAHL PH 3	1370	SEC 33	T16S	R29E	Q M 36 29 12	118 50 06	004			1913	1974		54
C6 4463	KERN	2575	SEC 20	T31S	R19E	C M 35 13 28	119 33 55	000			1948			15
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B M 35 26 27	118 47 45	003			1916			15
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F M 35 56 43	118 28 33	004			1921			54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N M 35 27 37	118 46 48	900			1904			15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A M 35 46 35	118 26 06	900			1946			15
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	F M 36 01 50	120 06 15	000			1930		03	16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F M 36 01 50	120 06 15	000			1931			16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L M 36 04 28	120 05 08	900			1933			16
B0 4590	KNIGHTS FERRY 2 SE	315	SEC 27	T01S	R12E	M 37 47 54	120 38 42	900			1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A M 38 28 42	120 00 48	900			1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F M 37 58 00	119 53 00	900			1909	1972		55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	S 34 49 58	118 51 51	900			1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N M 37 13 50	120 14 50	900			1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H M 37 18 39	120 15 05	000			1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N M 36 23 00	119 01 31	900			1899			54
C0 4957	LINDSAY	395	SEC 12	T20S	R27E	F M 36 11 24	119 04 20	900			1913			15
B8 4979	LITTLE PANOCHE DET RES	677	SEC 20	T13S	R11E	M 36 47 28	120 48 900				1968	1975		10
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E M 37 23 10	120 43 15	000			1948		07	24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D M 37 22 29	120 47 40	000			1952			24
C2 5026	LOGGEPOLE	6735	SEC 21	T15S	R30E	M 36 36 26	118 14 900				1968			54
C6 5098	LORAIN	2720	SEC 17	T30S	R33E	K 35 18 05	118 25 54	900			1941			15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P M 36 59 02	120 50 45	013			1948			24
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q M 37 00 54	120 53 55	900			1956			24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L M 37 03 00	120 51 00	900			1873			24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C M 36 52 52	120 56 25	900			1932			24
B8 5120	LOS BANOS DET RES	407	SEC 12	T11S	R09E	M 37 01 12	120 56 900				1968			24
C0 5151	LOST HILLS	265	SEC 35	T26S	R21E	N M 35 37 00	119 41 17	900			1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J M 36 54 48	119 14 42	905			1960	1967		10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E	M 38 01 00	119 53 00	900			1948	1971		55
B0 5233-03	MADERA 1 D YARD	270	SEC 32	T11S	R18E	N M 36 55 15	120 01 12	904			1952			20
B0 5236	MADERA	260	SEC 32	T11S	R18E	N M 36 55 15	120 01 12	900			1950			20
C0 5257	MAGUDEN	440	SEC 36	T29S	R28E	G M 35 21 42	118 55 18	004			1927			15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D M 37 20 31	119 19 45	905			1947			20
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H M 37 47 12	121 12 900				1964			39
C7 5338	MARICOPA	680	SEC 31	T12N	R23W	N S 35 04 48	119 22 58	900			1911			15
C7 5338-01	MARICOPA F S	985	SEC 12	T11N	R24E	E S 35 04 11	119 24 000				1959			15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B M 37 29 10	119 58 00	900			1909			22
B5 5346-01	MARIPOSA REYNOLDS	2005	SEC 23	T05S	R18E	B M 37 29 20	119 57 55	000			1958			22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E M 37 26 30	119 49 37	000			1952			22
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F M 37 30 04	119 59 05	808			1943			22
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B M 36 20 24	120 24 54	000			1959	1970		10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G M 37 53 25	119 51 10	900			1930		21	55
B5 5460	MCDERMID STA	2990	SEC 33	T02S	R17E	H M 37 43 18	120 05 48	000			1959	1969		22
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E M 35 18 20	119 37 20	000			1956			15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F M 37 04 38	119 26 00	900			1948			10
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K M 37 57 10	120 30 53	404			1955	1969		10
B0 5526	MENDOTA 1 NW	172	SEC 25	T13S	R14E	H M 36 46 23	120 21 09	013			1941			10
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M M 36 39 05	120 27 20	806			1958			10
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G M 36 47 15	120 22 12	900			1873			10
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q M 36 44 58	120 28 00	000			1948			10
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E	M 37 17 43	120 29 13	900			1872			24
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F M 37 17 47	120 21 09	000			1920			24
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A M 37 18 53	120 28 12	900			1938			24
C3 5669	MIL0 5 NE	3400	SEC 18	T19S	R30E	C M 36 16 40	118 46 15	900			1957			54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E S 34 51 02	119 11 18	000			1966			15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E	M 36 26 00	118 35 00	900			1956	1969		54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D M 36 40 00	119 05 00	900			1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E	M 36 45 00	118 43 00	900			1957		05	10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B M 37 48 40	120 18 20	401			1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H M 37 38 48	121 00 02	900			1926			50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J M 37 40 12	120 58 42	010			1959	1974		50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M M 37 38 36	121 00 29	900			1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E	M 36 13 00	118 10 00	900			1940	1971		54
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E	M 35 06 15	118 58 00	001			1963	1969		15
C1 5832	MORAIN CREEK	8840	SEC 27	T14S	R31E	L M 36 43 13	118 34 903				1964			54
C3 5887	MOUNTAIN HOME 2	5360	SEC 26	T19S	R30E	J M 36 14 30	118 42 54	901			1963			54
B7 5927	MT CATHY	910	SEC 26	T07S	R26E	E M 37 17 19	119 01 04				1963	1969		10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E M 37 20 33	122 50 00	900			1889			50

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INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Number	Record Began	Record Closed	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F M	35	33	04	119	47	28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M M	37	13	57	119	30	15	900		1904			20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N M	37	46	10	120	50	53	000		1880	01	50	
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L M	37	19	46	119	38	42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F M	36	14	50	120	18	50	808		1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E	M	36	18	00	120	24	00	900		1949			10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C M	35	16		119	16		806		1965	1973		15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K M	35	41	00	118	14	00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K M	36	37	18	119	18	40	900		1931			10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D M	37	21	42	121	03	47	013		1896			50
B5 6552	OSTRANDER LAKE	8600	SEC	T03S	R22E	M	37	38	00	119	33	00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B M	37	04	00	121	11	00	900		1949			24
B8 6675	PANOCH	1265	SEC 25	T15S	R10E	F M	36	35	47	120	49	58	900		1922	1975		35
B8 6676	PANOCH 2 W	1320	SEC 21	T15S	R10E	M	36	36	30	120	52	48	407		1957			35
B0 6679-05	PANOCH WATER DIST	183	SEC 14	T12S	R11E	H M	36	53	24	120	43	43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E	M	38	03	00	119	40	00	900		1948	1971		55
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E	M	37	28	00	121	07	00	000		1912			50
B6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E S	34	56	27	119	22	52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E	M	36	36	00	118	40	00	900		1956	1969		54
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C M	36	52	59	121	08	12	000		1954		02	24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E	M	38	12		119	59		905		1964			55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F M	38	11	25	119	59	12	003		1922			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A M	36	49	55	119	19	25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D M	36	41	54	119	00	54	905		1954			10
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R M	36	03	58	119	01	14	900		1893			54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R M	36	04	50	119	04	14	000		1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E	M	35	48	00	118	34	00	900		1953			54
C0 7096	POSEY 3 E	4920	SEC 28	T24S	R31E	M	35	48	00	118	38	00	900		1954		02	54
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F M	35	33	15	119	04	25	000		1967	1969		15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J M	35	36	30	119	15	45	001		1913	1969		15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P M	36	58	57	120	30	04	013		1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E	M	36	07	00	118	32	00	900		1955	1970		54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E	M	36	59	00	118	43	00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J M	37	10	32	119	55	55	000		1940	1970		20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A M	37	22	24	119	54	24	000		1957			22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R M	37	22	37	119	49	58	000		1954			22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J M	36	18	15	119	14	34	004		1888			54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E	M	36	37		119	27		808		1962			10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E	M	37	44	33	121	07	21	000		1963			39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P M	36	25	58	119	51	36	000		1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K M	37	20	45	120	08	42	000		1957	1972		22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E	M	36	04	24	118	38	12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R M	35	25	40	119	07	42	001		1914	1969		15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E	M	37	19	00	118	52	00	900		1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E	M	35	58	00	118	21	00	900		1947	1971		54
B4 7623	SACHS SPRINGS	7900	SEC 25	T03N	R19E	M	38	06	00	119	51	00	900		1948	1971		55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L S	34	59	45	119	10	59	900		1901	1969		15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K M	36	43	30	119	32	36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E M	36	43	48	119	33	18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J M	36	36	25	120	11	15	000		1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E M	37	05	40	119	43	38	900		1934			20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J M	36	36	28	120	11	18	808		1962	1970		10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E	M	37	03		121	04		904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P M	37	06	07	120	42	04	013		1944			24
C0 7987-80	SANTIAGA RANCH	437	SEC 27	T12N	R22W	S	35	05	35	119	12	35	000		1963	1970		15
B0 8316	SNELLING	259	SEC 04	T05S	R14E	M	37	31	24	120	26	18	000		1882		19	24
B0 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J M	37	32	35	120	28	57	000		1949	1974		24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E	M	37	50	00	119	30	00	900		1947		01	22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P M	37	01	30	119	15	06	905		1960	1967		10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E	M	37	59	00	120	23	00	900		1887			55
C0 8375-50	SOUTH BELRIDGE	575	SEC 28	T28S	R21E	R M	35	27	23	119	42	37	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E M	37	58	45	120	38	48	000		1938			24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N M	37	30	26	119	37	55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A M	35	56	02	119	38	46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H M	38	10	06	120	06	08	003		1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D M	36	09	47	118	42	21	900		1953			54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B M	36	08	09	118	48	40	900		1924			54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q M	36	11	35	118	39	23	900		1907			54
C1 8474-80	SQUAW VALLEY FR	1750	SEC 35	T13S	R25E	P M	36	44	58	119	12	21	808		1961			10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L M	38	08	23	120	22	10	900		1957			55

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	+40-Base Base B Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						0	I	II	0	I	II						
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E	M	36	56	00	118	35	00	900		1955		10	
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	36	03	00	118	55	00	903		1959		54	
C1 8643	SUNMIT MEADOW	6240	SEC 02	T10S	R25E	Q	37	05	12	119	12	36	900		1960		10	
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	35	08	34	119	27	53	900		1940		15	
C7 8755	TAFT KTRK RADIO	1030	SEC 14	T32S	R23E	G	35	08	50	119	28	18	000		1954		15	
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	35	08	00	118	27	00	900		1876		15	
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C	35	08	05	118	26	31	900		1940		15	
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R31E	H	35	01	35	118	44	38	900		1895		15	
C5 8857-10	TEN HIGH MINE	5200	SEC 03	T27S	R31E	A	35	36	49	118	37	30	000		1968	1971	15	
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	36	24	37	119	00	20	903		1959		54	
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	36	18	47	120	21	51	000		1959	1970	10	
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	36	22	00	118	51	00	900		1940		54	
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	C	36	27	40	118	52	40	900		1909		54	
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	C	36	27	58	118	51	40	900		1940		54	
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C	36	37	57	120	14	13	000		1953		10	
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A	37	29	10	119	49	06	000		1965	1974	22	
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	36	54	05	119	17	16	905		1948		10	
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	36	12	45	119	19	50	004		1919		54	
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A	36	04	41	119	47	39	002		1953	1969	16	
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	35	09	00	119	01	00	900		1948	1970	15	
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	36	09	42	118	42	22	004		1910		54	
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	36	08	07	118	47	15	004		1910		54	
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E	M	36	22	00	118	17	00	900		1945		54	
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	37	52	30	120	36	12	404		1958		05	
B4 9062-90	TUOLUMNE MAINT YARD	2690	SEC 05	T01N	R16E	R	37	57	55	120	13	55	000		1969		55	
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E	M	37	53	00	119	20	00	900		1947		55	
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	37	29	28	120	51	00	900		1893		50	
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	37	27	52	120	54	39	000		1958		50	
B0 9073-02	TURLOCK 8 WSW	60	SEC 28	T05S	R09E	D	37	28	22	120	59	30	000		1958		50	
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	35	53		118	39		900		1965		54	
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	35	32	00	119	16	40	906		1922		15	
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E	M	37	22	00	118	59	00	900		1946		10	
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	35	50	24	119	05	12	004		1920		54	
C1 9328	VIDETTE MEADOW	9500		T13S	R33E	M	36	45		118	25		901		1964		54	
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M	36	19	45	119	17	18	900		1903		54	
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D	36	19	32	119	13	24	000		1959	1970	54	
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E	35	25	17	118	32	35	000		1968		15	
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	35	35	35	119	19	57	900		1899		15	
B5 9482	WADONA R S	3975	SEC 34	T04S	R21E	P	37	32		119	40		900		1941		22	
C5 9512	WADOW 1 WSW	2680	SEC 23	T26S	R34E	D	35	40	00	118	18	00	900		1940		15	
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	37	26	58	119	38	59	905		1961	1971	20	
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	36	13	38	119	59	40	900		1925		10	
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	37	33	00	121	12	00	000		1928		50	
C1 9600	WEST WOODCHUCK	9100	SEC 28	T10S	R28E	M	37	01	48	118	55	06	903		1969		10	
C5 9602	WEST MEADOW	8950	SEC 13	T18S	R32E	R	36	20	56	118	34	16	900		1959		54	
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q	36	42	05	118	55	56	815		1966		54	
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	37	20	12	120	02	18	903		1950		22	
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	35	36	10	119	45	10	000		1962		16	
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E	M	37	00	40	118	58	20	003		1957		15	
C5 9754	WIFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H	35	43	00	118	27	00	900		1894		15	
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	35	42	02	118	50	34	808		1956		15	
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E	M	37	45	00	119	35	00	900		1904		22	
ADDITIONAL STATIONS																		
B0 5738-35	MODESTO 6 SW	50	SEC 03	T05S	R08E	C	37	32	05	121	04	30			1970		50	
B7 5893	MOUNTAIN REST	4100	SEC 17	T10S	R24E	R	37	03	18	119	22	12	905		1960		10	
C0 4564-20	KINGSBURG	286	SEC 02	T17S	R22E	M	36	30		119	33		915		1970		16	
C6 2683-20	EDMONSTON P P	1300	SEC 17	T10N	R18W	M	34	56	42	118	49	30	806		1971	1973	15	
C5 6724-50	PASCOES	9130	SEC 36	T22S	R33E	M	35	58		118	21		903		1971		54	
B7 8130-40	SHAYER 1 S	5680	SEC 12	T10S	R24E	C	37	04	55	119	19	05	806		1973		10	
B7 8130-50	SHAYER 3 SW	4900	SEC 09	T10S	R24E	R	37	04	08	119	21	02	806		1973		10	
C0 3257-30	FRESNO DWR	313	SEC 26	T13S	R20E	C	36	46	42	119	46	03	806		1968		10	
C0 5151-30	LOST HILLS DWR	312	SEC 03	T27S	R21E	M	35	36	52	119	41	40	806		1973		15	
C0 9724-60	WIND GAP	-814	SEC 26	T11N	R20W	S	35	01	05	118	58	31	806		1974		15	
B7 5893	MOUNTAIN REST	4100	SEC 17	T10S	R24E	R	37	03	18	119	22	12	905		1960		10	
B6 6321-85	OKHURST NO 2	2480	SEC 14	T07S	R21E	P	37	19	00	118	38	53	000		1969		10	
B0 8322	SNOW RANCH	240	SEC 12	T01N	R10E	Q	37	57		120	49		800		1934		50	
B5 8858-40	TENAYA LAKE	8150	SEC 21	T01S	R23E	B	37	50	14	119	27	00	800		1972		22	
B4 8931-50	TIOGA PASS	10000	SEC 31	T01N	R25E	B	37	54	39	119	15	30	800		1972		55	
B0 2389	DENAIR	122	SEC 06	T05S	R11E	R	37	31	20	120	47	40	000		1974		50	
B7 8140-01	SHAYER LAKE	5373	SEC 13	T09S	R24E	K	37	08	48	119	18	08	004		1920		10	
B3 5975-25	MT. REBA	7800	SEC 06	T07N	R18E	F	38	29	35	120	02	25	806		1970		02	
C0 3257-15	FRESNO STATE UNIV.	340	SEC 12	T13S	R20E	B	36	49	18	119	44	27	806		1969		10	
C0 4188-20	HURON-WOLF	400	SEC 22	T20S	R17E	M	36	10	52	120	07	10	000		1975		10	

TABLE A-2
PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

- E Wholly or partially estimated.
- T Trace, an amount too small to measure.
- NR Data not received before publication.
- RB Record begins.
- RE Record ends.
- INC Incomplete data.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fisher & Porter recording rain gages are used; these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1974										1975										TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP						
SAN JOAQUIN RIVER BASIN																						
SAN JOAQUIN VAL FL 80																						
CASTLE AFB	13.67	0.64	0.00	0.00	1.47	0.35	2.22	0.78	3.43	3.01	1.77	0.00	0.00	0.06	0.46	T				13.55		
DELTA RCH	9.75	0.36	0.00	0.00	0.76	0.52	2.40	0.23	2.58	2.11	0.79	0.00	0.00	0.00	0.43	0.00				9.82		
DENAIR					1.58	0.60	1.89	0.62	2.86	2.36	1.37	0.00	0.00	0.00	0.54	0.00				11.82		
DENAIR BARFIELD F # 5	12.27	0.69			1.12	0.40	2.33	0.57	2.55	3.06	1.35	0.00	0.00	0.00	0.00	0.05				11.63		
FANCHER RCH CAMP #5	NR	-	NR	-	RE																	
GUSTINE 5 SW	10.72	0.32	0.00	0.00	0.62	0.23	2.85	0.22	2.82	2.87	0.79	0.00	0.00	0.02	0.53	T				10.95		
GUSTINE SNYDER	10.32	0.00	0.00	0.00	0.54	0.23	3.00	0.23	2.90	2.80	0.62	0.00	0.00	0.10	0.00	0.00				10.62		
GUSTINE FOREMOST	11.88	0.37	0.00	0.00	0.74	0.04	2.85	0.77	2.01	4.59	0.49	0.00	0.00	0.00	0.58	0.00				12.07		
GUSTINE 7 SW	10.84	0.10	0.00	0.00	0.72	0.18	2.79	0.73	2.50	2.73	0.89	0.00	0.00	0.01	0.44	T				10.99		
NILMAR	10.03	0.17	0.00	0.00	0.86	0.30	2.48	0.40	2.65	2.54	0.63	0.00	0.00	0.03	0.46	0.02				10.37		
LE GRAND 6 N	13.69	0.07	0.00	0.00	1.34	1.02	2.11	0.65	4.13	3.19	1.18	0.00	0.00	0.00	0.40	0.08				14.10		
LIVINGSTON CITY HALL	9.92	0.00	0.00	0.00	1.06	0.44	2.47	0.46	1.97	2.71	0.81	0.00	0.00	0.01	0.00	0.40				10.33		
LIVINGSTON 5 W	9.66	0.35	0.00	0.00	1.04	0.25	1.02	0.09	1.34	0.81	0.75	0.00	0.00	0.04	0.17	0.33				9.78		
LOS BANOS 5 S	8.71E	0.84	0.00	0.00	0.87	0.32	1.77	0.16	2.50E	1.45	0.80E	0.00	0.00	0.00	0.20E	0.00E				8.07E		
LOS BANOS F S	8.84	0.40	0.00	0.00	0.67	0.43	2.10	0.12	2.45	1.69	0.98	0.00	0.00	0.04	0.22	0.01				8.71		
MADERA 1 O	8.38	0.00	0.00	0.00	1.11	0.61	1.45	0.39	1.26	2.03	1.53	0.00	0.00	0.00	0.14	0.17				8.69		
MENDOTA 1 NW	6.03	T	0.00	0.00	0.90	0.32	1.29	0.13	1.35	1.14	0.70	0.00	0.00	0.00	0.13	0.07				6.23		
MENDOTA VOL FARMS	5.47	0.17	0.00	0.00	1.04	0.25	1.02	0.09	1.34	0.81	0.75	0.00	0.00	0.04	0.17	0.33				5.84		
MERCED FANCHER RCH	13.14	0.18	0.00	0.00	1.05	0.55	2.46	0.77	4.09	2.87	1.17	0.00	0.00	0.00	0.40	0.04				13.40		
MODESTO 6 SW	8.93	0.64	0.00	0.00	0.71	0.33	2.23	0.16	2.78	0.59	1.47	0.00	0.02	0.01	0.91	0.01				9.22		
MODESTO KTRB		NR	0.50E	0.00	0.00	RE																
ORDALE	13.70	0.83	0.00	0.00	1.45	1.13	1.90	0.83	3.03	3.80	0.73	0.00	T	0.00	0.43	T				13.30		
ORESTIMA	10.96	0.25	0.00	0.00	0.65	0.22	2.68	0.47	2.38	3.34	0.97	0.00	0.00	0.00	0.67	0.15				11.53		
PANOCHE WATER DIST	7.13	0.00	0.00	0.00	0.58	0.24	1.54	0.12	2.83	1.40	0.42	0.00	0.00	0.00	0.10	T				7.23		
PATTERSON	11.16	0.63	0.00	0.00	0.56	0.27	2.78	0.20	2.17	1.56	0.99	0.00	0.00	0.00	0.68	0.01				11.22		
POSO CANAL CO HQ	8.45	0.25	0.00	0.00	0.59	0.85	1.71	0.21	2.70	1.78	0.36	0.00	0.00	0.00	0.28	0.01				8.49		
RIPON	11.53	0.73	0.00	0.00	1.13	0.89	1.71	0.66	2.86	2.86	0.69	0.00	0.00	0.00	0.69	0.00				11.49		
SAN LUIS CANAL CO HQ	8.51	0.45	0.00	0.00	0.81	0.43	1.77	0.13	2.36	1.90	0.66	0.00	0.00	0.00	0.47	0.04				8.57		
SNELLING F S	15.35	0.34	0.00	0.00	0.39	0.93	2.36	0.82	4.84	3.94	1.31	0.42	0.00	T	0.61	0.00				15.62		
SNELLING 3 NW		0.25	0.00	0.00	RE																	
SNOW RANCH	14.57E	0.00	0.00	0.00	*	*	3.50	1.33	3.73	4.38	1.63	0.00E	0.00E	0.00E	0.70E	0.00E				15.27E		
SOUTH OCS PALOS	7.81	0.06	0.00	0.00	0.54	0.35	1.50	0.20	2.94	1.51	0.71	0.00	0.00	0.04	0.23	0.04				8.06		
TURLOCK 5 SW	13.03	0.60	0.00	0.00	1.10	0.58	2.82	1.23	2.81	3.59	0.40	0.00	0.00	0.00	0.60	0.02				13.15		
TURLOCK 8 SW	11.93	0.40	0.00	0.00	0.88	0.30	2.18	0.58	2.52	4.02	1.05	0.00	0.00	0.00	0.75	0.00				12.84		
WESTLEY	11.61	0.45	0.00	0.00	0.64	0.26	1.93	1.34	2.44	3.46	1.09	0.00	0.00	0.00	0.68	0.01				11.85		
STANISLAUS RIVER B3																						
ANGELS CAMP	31.82	1.95	0.00	0.00	2.96	2.09	3.89	2.05	7.11	8.72	2.70	0.32	0.03	0.04	0.89	0.00				30.80		
BARFLOSA DAM	44.01	2.57	0.10	0.00	2.82	2.38	4.95	4.25	10.16	9.90	5.41	0.84	0.63	0.03	2.02	0.15				43.34		
BEAR VALLEY - ALPINE	NR	1.82	0.00	0.02	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR						
COLUMBIA	36.86	1.68	0.00	0.00	3.53	2.13	3.61	3.82	8.30	8.94	4.24	0.55	0.06	0.04	0.77	0.01				36.00		
COPPERPOLIS	23.48E	1.49	0.00	0.00	2.10E	1.75	2.79	3.16	4.21	3.64	1.16	0.48	0.00	0.00	0.60	0.00				22.59		
PINECREST STRAWBERRY	51.24	2.33	0.24	0.00	3.19	2.50	5.28	4.10	13.36	10.82	7.59	0.88	0.95	0.00	2.11	0.03				50.81		
SPRING GAP FOREBAY	46.49	2.62	0.07	0.00	3.43	2.35	5.22	4.59	11.63	9.08	6.24	0.65	0.61	0.00	2.00	0.02				45.82		
TULOCHE DAM	22.24	1.61	0.00	0.00	1.45	1.75	2.45	1.57	5.16	6.33	1.90	0.00	0.02	0.00	0.65	0.00				21.28		
TULOCHE RIVER B4																						
DON PEDRO RES	20.56	0.52	0.00	0.00	1.91	1.22	2.89	1.60	5.26	5.16	1.78	0.17	0.05	0.05	0.61	0.00				20.70		
EARLY INTAKE PCH	39.45	0.80	0.00	0.00	3.09	1.68	4.47	3.21	10.68	9.28	5.06	0.70	0.33	T	1.13	0.03				39.63		
HODGSON MEADOW	54.45	1.53	T	0.00	4.25	2.79	6.47	5.61	13.39	11.78	8.08	0.16	0.39	T	0.72	0.11				53.75		
MOCCASIN	30.33	0.82	0.02	0.00	2.22	1.26	3.70	1.63	8.76	7.65	3.94	0.31	0.02	0.01	0.46	0.03				29.99		
TULOCHE MAINT YARD	42.39	1.91	0.00	0.00	3.94	2.12	3.81	3.57	12.25	9.36	3.84	0.48	0.11	0.03	1.22	0.00				41.73		
MERCED RIVER B5																						
BEAR VALLEY	29.66	0.72	0.16	0.00	3.36	1.18	4.00	3.01	8.78	6.82	2.13	0.00E	0.00E	0.00E	0.20E	0.00E				28.04		
CATYNS VALLEY 3 NW	25.68	0.60	0.00	0.00	2.53	1.55	2.80	1.90	8.10	5.45	2.85	0.10	0.00	0.00	0.35	0.00				25.63		
COUTERVILLE FFS	29.26	1.59	0.00	0.00	1.85	1.72	2.94	3.03	8.95	6.48	2.70	0.00	0.00	0.03	0.32	0.05				28.07		
GREELEY HILL 1 N	43.09	1.40	0.00	0.00	3.77	1.59	5.77	3.76	11.73	9.69	5.08	0.15	0.15	0.06	0.73	0.12				42.60		
HORNITOS ERICKSON RCH	23.55	0.51	0.00	0.00	1.88	1.23	3.06	2.15	6.50	5.42	2.76	0.04	0.00	0.00	0.00	0.00				23.04		
HORNITOS GILES RCH	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR						
HORNITOS	18.94E	0.40E	0.00E	0.00E	1.14E	0.68	2.63	4.28	3.53	4.43	1.83	0.02E	0.00E	0.00E	0.00E	0.00E				18.54E		
JERSEYDALE G S	46.50	0.91	0.00	0.00	1.95	2.82	5.74	3.68	13.61	11.11	6.13	0.51	0.04	0.00	0.39	0.13				46.11		
MARIPOSA REYNOLDS	38.70	0.74	0.00	0.00	3.89	2.30	5.46	2.82	10.70	7.57	4.90	0.30	0.02	0.00	0.15	0.12				38.23		
MARIPOSA R S	32.43E	0.60E	0.00E	0.00E	3.49	1.13	3.86	3.22	8.91	7.40	4.17	0.25E	0.00E	0.00E	0.10E	0.00E				32.53E		
FRESNO-CHOWCHILLA R 86																						
ALHAMBRA 2 NW	28.75	0.10	0.00	0.00	2.60	2.01	2.69	2.57	7.04	7.21	4.18	0.32	0.03	0.00	0.39	0.11				29.15		
COARSEGOLD	28.74	0.11	0.00	0.00	2.56	1.98</																

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO LINE 30	1974						1975						TOTAL OCT 1 TO SEPT 30			
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
TULARE LAKE BASIN																	
TULARE LAKE VAL FL																	
ARVIN	6.30	0.13	0.00	3.00	0.74	1.37	0.75	0.00	1.30	0.98	1.61	0.00	0.00	0.00	0.08	0.13	6.08
AVENAL ORCHARD	6.03	0.00	0.00	0.00	0.58	0.42	1.38	0.00	1.88	1.35	0.42	0.00	0.00	0.00	0.00	0.04	6.07
BLACKWELLS CORNER 2 NW	3.30E	0.00	0.00	0.00	0.08	0.51	0.82E	0.00	1.21	0.44	0.24	0.00	0.00	0.00	0.00E	0.00E	3.30E
BUREN VISTA RCH MAL 2	4.07	0.00	0.00	0.00	0.54	0.67	1.03	0.00	1.04	0.80	0.59	0.00	0.00	0.00	0.00	0.00	4.69
BUREN VISTA RCH MAL 2	4.69	0.00	0.00	0.00	0.59	0.65	1.01	0.00	1.29	0.66	0.49	0.00	0.00	0.00	0.00	0.00	4.69
CANTUA RCH	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
COALINGA WTP	Inc.	0.00	0.00	0.00	0.34	0.32	1.52	0.04	NR	NR	NR	NR	NR	0.00	0.08	0.02	Inc.
COALINGA CDF	4.82	0.00	0.00	0.00	0.49	0.08	0.86	0.10	1.50	1.87	0.42	T	NR	0.01	0.07	0.03	4.97
COTT RCH HQ	5.41	0.00	0.00	0.00	0.50	0.55	0.89	0.10	1.61	0.88	0.88	0.00	0.00	0.04	0.11	0.51	6.09
CONCORAN EL RICO 1	5.23	0.00	0.12	0.00	0.84	0.06	1.49	0.05	1.00	1.09	0.58	0.00	0.00	0.00	0.00	0.52	5.63
DELANO GOVT CAMP	6.44	0.00	0.00	0.00	1.50	0.40	0.85	0.08	1.59	1.01	1.01	0.00	0.00	0.00	0.00	0.02	6.46
DEVILS DEN SLF	5.51	0.00	0.00	0.00	0.45	0.36	1.87	0.00	1.32	0.89	0.62	0.00	0.00	0.00	T	0.17	5.68
DI GIORGIO	6.98	T	0.00	0.00	1.88	0.39	0.89	0.04	0.41	0.77	1.50	T	0.00	0.00	0.18	0.05	7.21
DINUBA ALTA 1 D	8.27	0.06	0.00	0.00	1.37	0.29	1.54	0.61	1.68	1.97	0.75	0.00	0.00	0.00	0.01	0.03	8.25
FIVE POINTS DIENER	4.13	0.06	0.00	0.00	0.39	0.08	1.23	0.07	0.76	1.45	0.09	0.00	0.00	T	0.12	0.03	4.22
FOUNTAIN SPRINGS FS	7.75	0.00	0.00	0.00	1.18	0.67	1.04	0.47	2.62	1.02	0.75	0.00	0.00	0.00	0.00	0.00	7.75
FRESNO CO WESTSIDE FD	4.51	0.00	0.00	0.00	0.29	0.06	1.13	T	0.86	1.37	0.80	0.00	0.00	0.01	0.04	0.02	4.58
FRESNO DWR	7.52	0.00	0.00	0.00	1.20	0.40	1.38	0.64	0.98	2.29	0.61	0.02	0.00	T	0.05	0.08	7.65
FRESNO STATE UNIV	4.84	0.00	0.00	0.00	1.41	0.56	1.59	0.92	1.28	2.42	0.66	0.00	0.00	0.00	0.05	0.08	8.97
GIN YARD	4.44	0.00	0.00	0.00	0.70	0.70	1.03	0.00	0.96	0.81	0.24	0.00	0.00	0.00	0.00	T	4.44
HANFORD REFINERY	6.44	0.00	T	0.00	1.31	0.19	1.55	0.11	1.78	1.07	0.63	0.00	0.00	0.00	T	2.35	8.99
HURON RCH	3.44	0.00	0.00	0.00	0.32	0.04	1.05	0.07	0.64	1.12	0.20	0.00	0.00	0.00	0.00	0.00	3.44
HURON-WOLF	4.31E	0.00E	0.00E	0.00	0.37	0.31	1.38	0.06	0.98	1.22	0.59	0.00	0.00	0.00	0.04	0.08	5.03
IVANHOE 1 D	9.98	T	0.00	0.00	1.96	1.15	1.71	0.56	1.74	2.06	0.80	0.00	0.00	0.00	0.00	0.07	10.05
KETTLEMAN CITY	4.84	0.00	0.00	0.00	0.34	0.03	1.10	0.02	1.25	1.59	0.51	0.00	0.00	0.00	0.28	0.24	5.36
KETTLEMAN HILLS	5.67	0.00	0.00	0.00	0.72	0.15	1.09	0.06	0.81	1.21	1.63	0.00	0.00	0.00	0.00	0.04	5.71
KINGSBURG	6.65	0.00	0.00	0.00	1.32	0.27	1.29	0.17	1.34	1.49	0.77	0.00	0.00	0.00	0.06	0.24	7.05
LOST HILLS ORCH	3.94	0.00	0.00	0.00	0.70	0.10	1.31	0.03	1.27	0.42	0.11	0.00	0.00	0.00	0.00	0.00	3.94
MAGNUNEN	5.82	0.00	0.00	0.00	0.90	0.58	0.86	0.13	1.56	0.64	1.15	0.00	0.00	0.00	0.07	0.00	5.89
MENDOTA MURIELTA RCH	4.51	0.02	0.00	0.00	0.27	0.44	0.89	0.13	1.34	0.75	0.67	0.00	0.00	T	0.15	0.06	4.70
NORTH BELGRADE	5.20	0.00	0.00	0.00	0.90	0.53	1.46	0.00	0.99	0.97	0.35	0.00	0.00	0.00	T	0.09	5.29
OLDFIELD FS	6.36	0.00	0.00	0.00	0.68	0.11	1.78	0.16	1.25	1.77	0.61	0.00	0.00	0.02	0.06	0.29	6.73
PORTERVILLE 1 W	8.28	0.00	0.00	0.00	1.47	0.77	1.67	0.32	1.51	1.97	0.57	0.00	0.00	0.00	0.00	0.00	8.28
RECTOR	11.42	0.00	0.00	0.00	1.50	0.66	1.38	0.37	1.30	1.87	0.44	T	0.00	0.00	0.15	0.06	8.45
REDLEY MVD	9.14	0.00	0.00	0.00	1.74	0.63	1.61	0.60	1.54	2.27	0.75	0.00	0.00	0.00	0.04	0.52	9.70
RIVERDALE	6.06	0.00	0.00	0.00	0.99	0.10	1.15	0.16	0.88	2.19	0.59	0.00	0.00	0.00	0.05	0.08	6.19
SANGER 1 NE	8.67	0.00	0.00	0.00	1.50	0.63	1.31	0.49	2.14	2.04	0.56	0.00	0.00	0.00	0.06	0.10	8.83
SANGER RS	8.81	0.04	0.00	0.00	1.60	0.55	1.67	0.39	1.36	2.54	0.66	0.00	0.00	0.00	0.05	0.12	8.94
SAN JOAQUIN	4.63	0.00	0.00	0.00	0.71	0.28	1.10	0.06	0.93	1.09	0.44	0.00	0.00	0.00	0.23	0.07	4.93
SOUTH BELGRADE	4.29	0.00	0.00	0.00	0.67	0.28	1.14	0.00	0.97	0.75	0.48	0.00	0.00	0.00	0.01	0.00	4.30
SOUTH LAKE FARMS NW	4.84	T	0.00	0.00	0.53	0.18	1.33	0.00	1.26	0.73	0.81	0.00	0.00	0.00	T	0.06	4.90
TRANQUILITY GLOZT	7.03	0.03	0.00	0.00	0.55	0.25	1.09	0.10	1.08	1.41	0.36	0.00	0.00	T	0.12	T	4.72
TULARE	4.61	0.00	0.00	0.00	1.12	0.30	1.62	0.23	1.43	1.41	0.83	0.00	0.00	0.00	0.00	0.00	4.70
TULARE	4.94	0.02	0.00	0.00	1.12	0.18	1.12	0.08	1.34	0.51	0.58	T	0.00	0.00	0.02	0.01	4.95
TULARE	6.95	0.00	0.00	0.00	1.02	0.81	1.01	0.16	1.90	1.41	0.64	0.00	0.00	0.00	0.00	0.06	7.01
WILBUR DITCH	3.81	0.00	0.00	0.00	0.58	0.20	1.32	0.00	0.99	0.72	0.00	0.00	0.00	0.00	0.18	0.12	4.11
WIND GAP	7.41	0.00	0.08	0.00	1.20	0.85	0.96	T	1.23	1.66	1.43	0.00	0.00	0.00	0.23	0.19	7.75
KINGS RIVER C1																	
BLASINGAME	20.76	0.00	0.00	0.00	2.37	1.56	3.10	1.67	4.37	5.69	2.00	0.00	T	0.00	0.05	0.10	20.91
MITCHELL MEADOW	37.50	0.00E	0.00E	0.00E	1.50	1.10	5.50	3.00	9.00	11.00	6.50	0.00	0.00	0.00	0.00	0.00	37.50
FINDHURST R S	27.95	0.04	0.00	0.00	3.20	1.13	3.91	2.28	5.87	8.00	3.20	0.05	0.29	0.00	0.02	0.41	28.34
SQUAW VALLEY-FRESNO	18.43	0.00	0.00	0.00	2.02	2.25	2.73	1.63	5.56	4.11	0.13	0.00	0.00	0.00	0.06	0.00	18.49
STATE LAKE	30.00	0.00E	0.00E	0.00E	0.50	2.00	4.50	1.50	7.00	9.00	4.00	1.00	0.50	0.00	0.00	0.00	30.00
TRIMMER R S	24.95	0.04	0.00	0.00	2.31	1.83	3.14	1.98	5.14	7.91	2.60	0.00	0.00	0.00	0.07	0.00	24.98
WEST WOODCHUCK	41.50	0.00E	0.00E	0.00E	1.50	0.50	6.50	4.00	11.00	10.50	6.00	1.00	0.50	0.00	0.00	0.10	41.50
WISHON LAKE	41.47	0.39	0.63	0.00	2.27	1.45	5.14	2.88	11.24	10.96	5.95	1.46	0.00	0.00	0.75	0.10	41.30
KAWAHEH RIVER C2																	
KAWAHEH PH 3	Inc.	0.00	0.00	0.00	2.20	0.21	RE	1.88	5.07	6.76	2.68	T	0.00	0.00	0.01	0.06	22.97
MIRAMONTE H C	22.90	T	0.00	0.00	2.96	1.18	2.37	0.86	2.53	3.10	1.20	0.02	0.00	T	T	0.05	12.87
TERMINUS DAM	15.82	0.00	0.00	0.00	1.79	1.75	1.57	0.06	9.13	3.75	4.04	0.61	0.08	T	0.44	0.50	37.80
WHITAKER FOREST	37.08	0.22	0.00	0.00	3.19	1.18	5.27	3.07	8.22	11.20	4.04	0.61	0.08	T	0.44	0.50	37.80
TULE RIVER C3																	
SUCCESS DAM	11.84	0.03	0.02	0.00	2.01	0.92	1.34	0.48	3.38	2.43	1.20	0.03	0.00	T	0.02	0.06	11.87
TULE RIVER INTAKE	27.57	0.08	0.00	0.00	3.01	1.91	2.68	2.35	6.40	7.46	3.51	0.13	0.04	0.00	0.01	0.56	28.06
TULE RIVER PH	17.94	0.01	0.00	0.00	2.67	1.27	1.76	1.19	4.53	4.53	1.86	0.12	0.00	0.00	0.00	0.01	17.94
GREENHORN MOUNTAIN C4																	
WOODY	11.56	0.00	0.00	0.00	1.76	0.81	1.51	0.66	2.89	3.02	1.70	0.01	0.00	0.00	0.02	0.10	11.68
FERN RIVER C5																	
ISABELLA DAM	10.91	0.78	0.00	0.00	2.30	0.10	1.96	0.65	1.82	2.70	0.56	0.04	0.30	0.00	0.03	1.85	12.01
KERN CANYON	10.66	0.00	0.00	0.00	2.07	0.48	0.53	0.05	2.26	2.18	0.71	0.00	0.00	0.00	0.05	0.03	10.66
KERN R 3 INTAKE	14.90	0.00	0.00	0.10	1.66	0.19	2.71	1.02	3.90	3.68	1.09	0.00	0.05	0.00	0.00	0.50	14.80
ONTX	5.98	0.13	0.00	0.00	1.31	0.10	1.41	0.00	1.55	1.41	0.17	0.00	0.00	0.00	0.00	0.00	5.85
TEHACHAPI MOUNTAINS C6																	
TEHACHAPI-CUMMINGS W D	NR	NR	NR	NR	2.25	0.46	2.12	0.									

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1974						1975									TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
TULARE L BA WESTSIDE C7 (Cont.)																	
COALINGA ROBERTS RCH	15.05	0.00	0.00	0.00	0.51	0.25	3.15	0.07	6.04	3.50	1.53	0.00	1.00	0.00	0.00	0.30	15.35
FELLOWS	4.84	0.00	0.00	0.00	0.53	0.35	1.17	0.00	1.44	0.76	0.59	0.00	0.00	0.00	0.08	0.00	4.92
MARICOPA FS	7.67	0.00	0.00	0.00	1.09	1.83	1.63	0.01	1.02	1.26	0.83	0.00	0.00	0.00	0.08	0.00	7.75
MCKITTRICK FS	3.97	0.00	0.00	0.00	0.38	0.45	0.61	0.00	1.34	0.70	0.49	0.00	0.00	0.00	0.02	0.04	4.03
TAFT KTKR	4.99	0.06	0.00	0.00	1.08	0.39	0.87	0.00	0.79	0.80	1.00	0.00	0.00	0.00	0.09	0.00	5.02

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1974-75 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7-10-74	7-10-75	32.6
LAKE ALPINE	DEPT OF WATER RESOURCES	7-10-74	7-10-75	66.3
MT. REBA	DEPT OF WATER RESOURCES	11- 7-74	9-24-75	43.24
TUOLUMNE RIVER B4				
TIOGA PASS	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	40.26
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	36.05
MERCED RIVER B5				
OSTRANDER LAKE	YOSEMITE NATL PARK SERVICE	7-25-74	8-26-75	57.45
SNOW FLATS	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	57.2
TENAYA LAKE	DEPT OF WATER RESOURCES	7- 9-74	7- 9-75	46.6
SAN JOAQUIN RIVER B7				
CHIUQUITO CREEK	DEPT OF WATER RESOURCES	7- 8-74	7-22-75	49.85
CLOVER MEADOW	DEPT OF WATER RESOURCES	7- 8-74	7-22-75	49.1
FLORENCE LAKE	SO CALIF EDISON COMPANY	9-20-74	9-22-75	20.29
KAISER MEADOW	SO CALIF EDISON COMPANY	9-24-74	9-18-75	45.62
MAMMOTH POOL	SO CALIF EDISON COMPANY	9-23-74	9-19-75	33.27
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	9-17-74	10- 7-75	38.11
VERMILLION VALLEY	SO CALIF EDISON COMPANY	9-11-74	9-16-75	21.70
TULARE LAKE BASIN				
KINGS RIVER C1				
DUSY BENCH	DEPT OF WATER RESOURCES	8-27-74	9-15-75	24.58
MORAIN CREEK	U S CORPS OF ENGINEERS			Not serviced
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-10-74	9- 9-75	41.05
SUMMIT MEADOW	DEPT OF WATER RESOURCES	7-19-74	7-24-75	54.35
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-10-74		Not serviced
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	10- 7-74	9-10-75	35.70
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-10-74	9- 8-75	42.60
GIANT FOREST	U S CORPS OF ENGINEERS	10- 8-74	9-10-75	38.45
HOCKETT MEADOW	U S CORPS OF ENGINEERS	10- 9-74	9-11-75	33.90
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	9-24-74	9-23-75	35.90
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	9-25-74	9-25-75	42.10
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	9-26-74	9-25-75	36.65
ROGERS CAMP	U S CORPS OF ENGINEERS	9-26-74	9-24-75	35.75
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	10- 9-74	9-19-75	21.65
CRAETREE MEADOW	DEPT OF WATER RESOURCES	9-12-74	9- 6-75	20.00
PASCOES	U S CORPS OF ENGINEERS	9-24-74	9-23-75	33.55
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	9-24-74	8-18-75	42.80
TUNNEL R S	DEPT OF WATER RESOURCES	9-17-74	9-11-75	19.52
WET MEADOW	U S CORPS OF ENGINEERS	9-25-74	9-23-75	33.30
TULARE LAKE BASIN - WESTSIDE C7				
OILFIELDS JOAQUIN RDG	DEPT OF WATER RESOURCES	10-11-74	7-23-75	14.05

APPENDIX B
SURFACE WATER MEASUREMENTS



INTRODUCTION

This appendix presents surface water data for the 1975 water year, which is from October 1, 1974 to September 30, 1975. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, and corrections and revisions to previously published reports. *

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B	HYDROGRAPHIC AREA C
SAN JOAQUIN RIVER BASIN	TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn Mountains
B7 - San Joaquin River	C5 - Kern River
B8 - San Joaquin Valley on West Side	C6 - Tehachapi Mountains
	C7 - Tulare Lake Basin on West Side

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract, or through cooperative arrangements with other local or government agencies. The data published in the following reports together with this report present a comprehensive analysis of the water resources for the area:

1. Water Resources Data for California
Part 1, Surface Water Records
Volume 2: Northern Great Basin and Central Valley
United States Department of the Interior
Geological Survey
Prepared in cooperation with the California Department of Water Resources
and with other agencies.
2. Kings River Watermaster Report
Kings River Water Association
3. Water Supply
Fresno Field Division, U. S. Bureau of Reclamation
4. Bulletin 120, Summary of Water Conditions in California,
Department of Water Resources
5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970,
Department of Water Resources
This index contains the period of record--with number of years missing--and more
information for 800+ stations in the San Joaquin Valley area. The index also
identifies the agency from which a particular record may be obtained.

*Figure B-1 shows station locations

ALPHABETICAL INDEX TO TABLES

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

		Page	
		Daily Mean Discharge	Daily Mean Gage Height
Avenal Creek at Highway 33		91	
Bean Creek near Coulterville		60	
Bear Creek below Bear Reservoir		53	
at McKee Road near Merced		54	
at Merced Irrigation District West Boundary		55	
Buena Vista Creek near Taft		92	
Burns Creek below Burns Reservoir		56	
Campbell-Moreland Ditch above Porterville		82	
Chowchilla River, West Fork near Mariposa		48	
Cross Creek below Lakeland Canal #2		78	
Delta-Mendota Canal near Tracy		40	
to Mendota Pool		41	
Dry Creek near Modesto		69	110
Eastside Bypass near El Nido		49	
Fresno River Eight Miles West of Madera		47	
Lewis Fork near Oakhurst		44	
Friant-Kern Canal Delivery to Porter Slough		79	
to Tule River		80	
Hubbs-Miner Ditch at Porterville		87	
James Bypass near San Joaquin		39	
Kern River at Second Point		90	
near Bakersfield		89	
Kings River, South Fork, below Empire Weir #2		77	
Mariposa Creek near Catheys Valley		50	
below Mariposa Reservoir		51	
Maxwell Creek at Coulterville		61	
Merced River at Cressey		64	106
below Snelling		63	105
Miami Creek at Highway 49 near Ahwahnee		46	
near Oakhurst		45	
Musick Creek #1 near Shaver Lake		76	
Musick Creek #2 near Shaver Lake		75	
Mustang Creek near Ballico		65	
Orestimba Creek below Highway 33		66	
Owens Creek below Owens Reservoir		52	
Panoche Drain near Dos Palos		58	
Poplar Ditch near Porterville		86	
Porter Slough at Porterville		83	
Porter Slough Ditch at Porterville		84	
Salt Slough near Stevinson		59	
San Joaquin River near Dos Palos		43	
at Fremont Ford Bridge		62	104
below Friant		38	102
at Maze Road Bridge		71	113
near Mendota		42	
near Newman			107
at Patterson Bridge		67	108
near Stevinson		57	103
near Vernalis		74	117
Stanislaus River at Koetitz Ranch		73	116
at Orange Blossom Bridge		72	114
at Ripon			115
Tulare Lake			101
Tule River below Porterville		81	
Tuolumne River at Hickman Bridge		68	109
at Modesto			111
at Tuolumne City		70	112
Vandalia Ditch near Porterville		85	
Woods-Central Ditch near Porterville		88	
DIVERSIONS			
Deliveries from California Aqueduct			98
Deliveries from Central Valley Project Canals			96
East Side Canals and Irrigation Districts			95
San Joaquin River, Fremont Ford Bridge to Gravelly Ford			94
IMPORTS AND EXPORTS			99
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS			118
UNIMPAIRED RUNOFF			
Annual			35
Monthly			36

Station Number

HYDROGRAPHIC AREA B

SAN JOAQUIN VALLEY FLOOR

		Daily Mean Discharge	Daily Mean Gage Height
B00435	Eastside Bypass near El Nido	49	
0470	Salt Slough near Stevinson	59	
0525	Mustang Creek near Ballico	65	
0770	Delta-Mendota Canal to Mendota Pool	41	
0975	Panoche Drain near Dos Palos	58	
3115	Stanislaus River at Koetitz Ranch	73	
3125	at Ripon		116
3175	at Orange Blossom Bridge	72	115
4105	Tuolumne River at Tuolumne City	70	114
4120	at Modesto		112
4130	Dry Creek near Modesto	69	111
4150	Tuolumne River at Hickman Bridge	68	110
5155	Merced River at Cressey	64	109
5170	below Snelling	63	106
5518	Bear Creek at Merced Irrigation District West Boundary	55	105
5525	at McKee Road near Merced	54	
5570	below Bear Reservoir	53	
6170	Owens Creek below Owens Reservoir	52	
6725	Fresno River Eight Miles West of Madera	47	
7020	San Joaquin River near Vernalis	74	116
7040	at Maze Road Bridge	71	113
7200	at Patterson Bridge	67	108
7300	near Newman		107
7375	at Fremont Ford Bridge	62	104
7400	near Stevinson	57	103
7610	near Dos Palos	43	
7710	near Mendota	42	
7885	below Friant		102
8735	Orestimba Creek below Highway 33	66	

MERCED RIVER

B51250	Maxwell Creek at Coulterville	61	
2580	Bean Creek near Coulterville	60	
6100	Burns Creek below Burns Reservoir	56	

FRESNO - CHOWCHILLA RIVERS

B62100	Mariposa Creek below Mariposa Reservoir	51	
2400	near Cathays Valley	50	
4300	Chowchilla River, West Fork near Mariposa	48	
7285	Miami Creek at Highway 49 near Ahwahnee	46	
7300	near Oakhurst	45	
7325	Fresno River, Lewis Fork near Oakhurst	44	

SAN JOAQUIN RIVER

B71406	Musick Creek #1 near Shaver Lake	76	
1408	Musick Creek #2 near Shaver Lake	75	

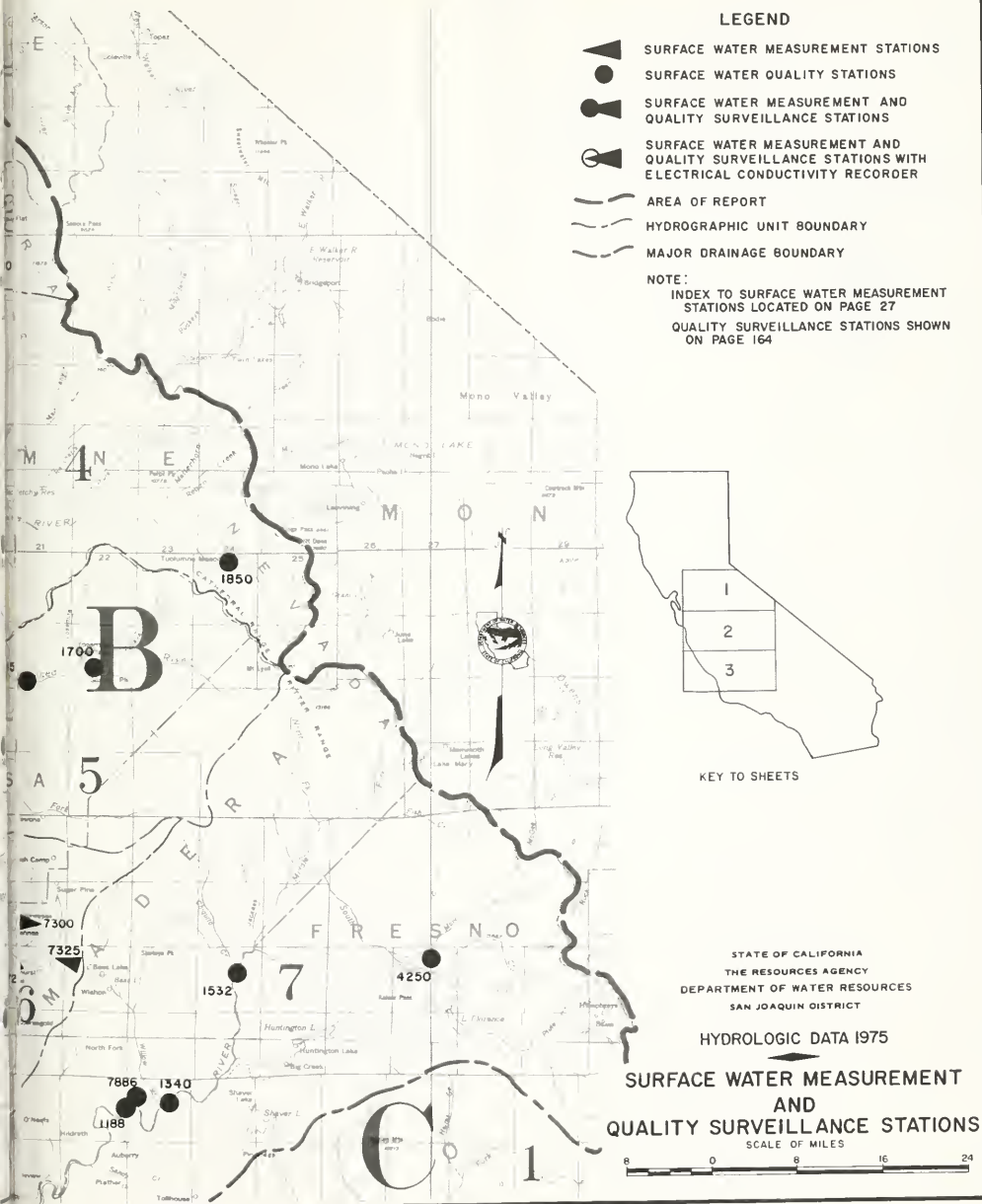
SACRAMENTO - SAN JOAQUIN DELTA

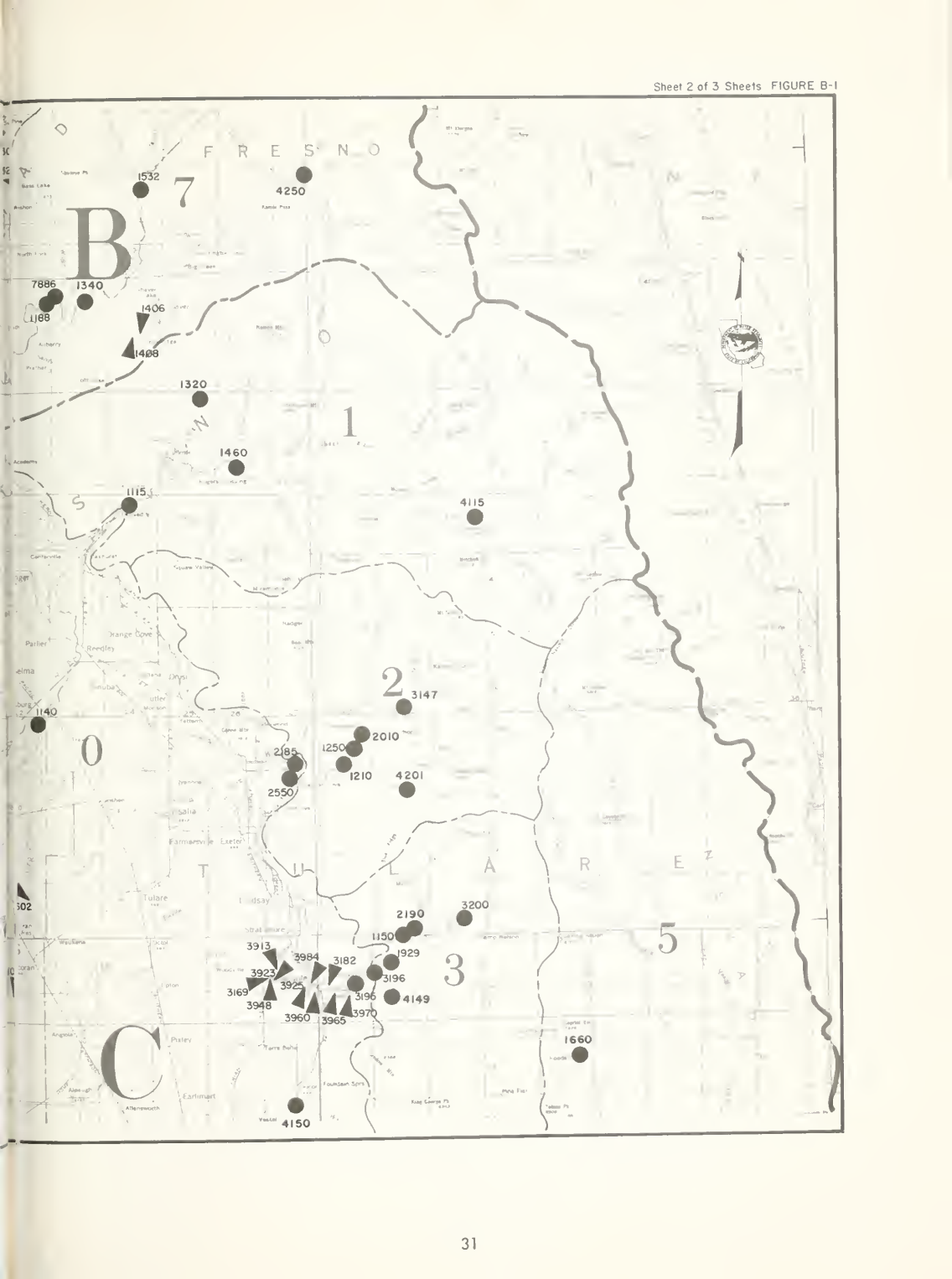
B95925	Delta-Mendota Canal near Tracy	40	
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HYDROGRAPHIC AREA C

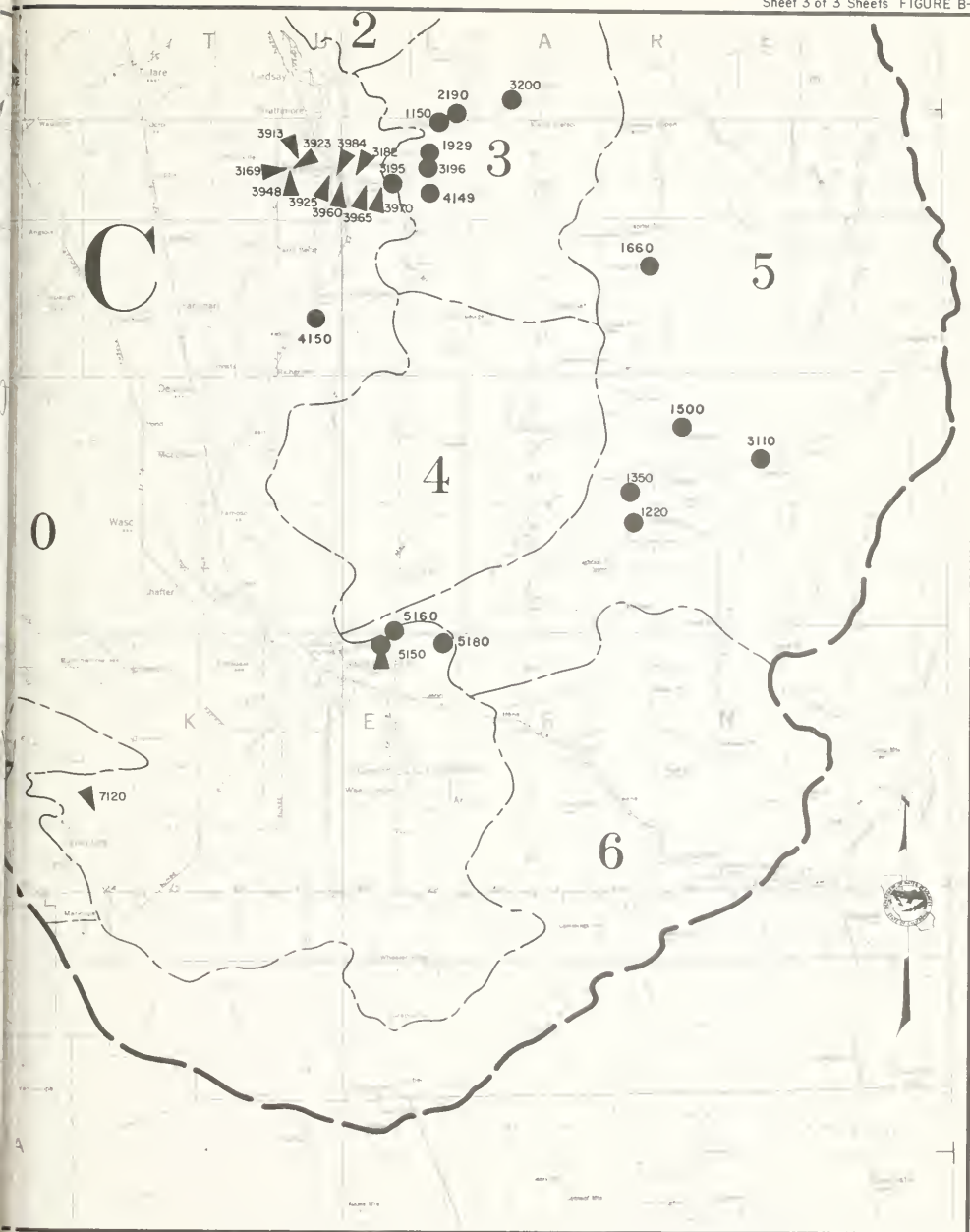
TULARE LAKE VALLEY FLOOR

C00200	James Bypass near San Joaquin	39	
1120	Kings River, South Fork, below Empire Weir #2	77	
2602	Cross Creek below Lakeland Canal #2	78	
3110	Tulare Lake		101
3169	Tule River below Porterville	81	
3182	Porter Slough at Porterville	83	
3913	Friant-Kern Canal Delivery to Porter Slough	79	
3923	to Tule River	80	
3925	Hubbs-Miner Ditch at Porterville	87	
3948	Woods-Central Ditch near Porterville	88	
3960	Poplar Ditch near Porterville	86	
3965	Vandalia Ditch near Porterville	85	
3970	Campbell-Moreland Ditch above Porterville	82	
3984	Porter Slough Ditch at Porterville	84	
5150	Kern River near Bakersfield	89	
5180	at Second Point	90	
7115	Avenal Creek at Highway 33	91	
7120	Buena Vista Creek near Taft	92	









UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

Table B-1 presents annual unimpaired runoff in percent of average for major streams.

Table B-2 presents monthly unimpaired runoff in percent of average for major streams.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1920 through September 1970.

TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1085	1789	920	1659	5452	1568	404	133	629
1930-31	29	34	29	29	30	30	28	19	29
1931-32	125	118	121	123	121	133	129	104	111
1932-33	56	63	56	67	62	75	70	60	68
1933-34	39	45	39	42	42	42	32	15	37
1934-35	112	118	127	116	118	103	89	67	72
1935-36	122	121	125	112	119	120	121	128	119
1936-37	102	112	132	133	120	149	168	230	176
1937-38	188	192	226	222	206	209	216	267	205
1938-39	48	55	52	56	53	62	61	62	72
1939-40	129	124	119	113	121	114	127	158	111
1940-41	123	140	158	160	146	162	159	177	198
1941-42	137	133	140	136	136	128	122	102	119
1942-43	144	133	140	124	134	129	166	274	159
1943-44	62	73	74	76	72	75	78	77	92
1944-45	118	117	119	129	121	132	136	153	128
1945-46	109	105	102	104	105	103	88	71	103
1946-47	58	62	61	68	63	71	66	39	68
1947-48	83	79	75	73	77	64	65	48	53
1948-49	69	70	69	70	70	61	54	37	47
1949-50	99	87	78	79	85	82	75	47	69
1950-51	156	139	133	112	133	102	104	116	84
1951-52	177	167	170	171	171	182	204	241	221
1952-53	89	86	68	74	80	74	76	74	86
1953-54	82	81	73	79	79	83	76	67	80
1954-55	63	64	58	70	64	71	68	49	56
1955-56	174	177	182	178	178	162	180	157	139
1956-57	82	80	70	80	79	79	73	49	69
1957-58	155	148	153	159	153	157	159	168	167
1958-59	54	56	50	57	55	52	38	24	43
1959-60	55	59	52	50	54	45	45	36	44
1960-61	37	41	34	39	39	36	29	15	28
1961-62	92	99	101	116	103	118	98	65	104
1962-63	117	115	107	117	115	119	124	89	117
1963-64	60	64	49	56	58	54	57	45	50
1964-65	164	154	145	137	149	123	121	102	109
1965-66	65	73	73	78	73	77	61	35	64
1966-67	178	174	187	195	182	207	254	281	251
1967-68	59	57	46	52	54	51	54	48	73
1968-69	203	207	240	244	223	271	314	375	351
1969-70	122	108	95	87	102	82	88	91	94
1970-71	98	92	79	85	89	74	73	62	66
1971-72	71	64	63	66	66	54	42	26	39
1972-73	112	115	122	123	118	133	152	169	141
1973-74	144	122	126	132	130	131	121	115	122
1974-75 (c)	114	111	123	108	113	99	95	91	86

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(c) Percent figures are preliminary values and subject to revision.

TABLE B-2
MONTHLY UNIMPAIRED RUNOFF
(a)

In percent of average

Month		Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	98	71	29	117	85	100	105	213	133
	Average	8	14	6	16	45	16	4	1	14
November	Percent	58	36	47	58	48	66	81	90	100
	Average	24	45	20	30	119	28	8	4	17
December	Percent	44	39	36	52	43	50	38	46	71
	Average	52	92	46	62	253	54	21	11	28
January	Percent	27	48	44	53	44	48	39	39	72
	Average	67	108	56	69	300	59	22	14	28
February	Percent	81	104	139	80	100	68	50	65	76
	Average	85	140	80	95	400	80	30	19	32
March	Percent	130	133	145	106	127	96	92	82	75
	Average	112	168	90	128	500	106	38	24	49
April	Percent	62	63	67	56	61	45	50	70	49
	Average	196	282	148	236	863	214	64	24	86
May	Percent	139	129	132	127	131	122	119	140	98
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	185	169	195	156	171	141	152	150	109
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	147	126	144	102	121	84	91	157	77
	Average	52	113	48	158	370	150	26	3	63
August	Percent	145	71	159	88	101	75	70	267	81
	Average	13	20	10	46	89	44	7	1	26
September	Percent	192	67	276	142	149	92	128	0	102
	Average	6	8	4	18	36	17	3	0	15
1974-75 Percent		114	111	123	108	113	99	95	91	86
Water Year Average		1085	1789	920	1659	5452	1568	404	133	629

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

DAILY MEAN DISCHARGE

The streamflow data shown in Table B-3 are arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

TABLE B-3

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	95 *	70	39	38	41	38	44	112	100	125	144	88	1
2	90	70	39	36	46	38	44	115	100	123	129	88	2
3	85	70	42	36	41	38	46	113	102	123	129	88	3
4	75	66	42	38	38	38	46	113	106	121	127	88	4
5	76	60	41	38	42	39	57	112	106 *	123	127 *	88	5
6	76	60	38	39	46	52	73	110	123	125	125	88	6
7	76	60	39	39	62	41	55	108	123	123	123	87	7
8	76	50	41	44	62	41	50	110	121	121	123	87	8
9	75	30	39	41	62	39	47	110	125	123	123	87	9
10	75	28	39	39	78	41	44	110	119	119	121	87	10
11	73	28	39	39	65	52	44	110	117	112	119	83	11
12	73	28	39	38	63	46	42	108	121	112	119	82	12
13	73	28	41	38	65	47	39	110	121	110	119	82	13
14	73	30	41	38	63	65	39	112	123	110	112	82	14
15	71	32	41	38	47	46	44	112	121	110	100	75	15
16	71	33	41	38	41	49	42	112	115	110	99	70	16
17	70	33	41	38	38	49	42	115	117	110	99	70	17
18	70	32	38	39	36	42	41	115	119	108	99	71	18
19	70	32	38	39	38	42	42	112	121	110	99	71	19
20	71	32	39	38	39	41	36	112	119	110	99	71	20
21	71	34	38	38	39	42	41	110	121	108	97	71	21
22	73	36	38	38	38	100	33	102	121	110	95	71	22
23	76 *	34	38	38	38	66	77	100	121	108	90	71	23
24	78	34	38	38	39	54	136	100	123	121	92	70	24
25	78	34	38	38	41	66	136	99	123	142	94	70	25
26	80	36 *	39	39	41 *	68	100	95	123	142	94	68	26
27	80	36	39	39	41	75	76	95	125	151	94	73	27
28	83	36	39	38	41	54	75	97	125	163	94	82	28
29	82	38	39	39	50	90	97	125	163	163	94	82	29
30	82	38	38 *	39	49	110 *	97	125 *	160	160	94	82 *	30
31	76	38	38	39 *	47 *	47 *	99	99	160	160	90	82	31
MEAN	76.5	40.9	39.3	38.6	47.5	49.6	59.7	107	118	124	108	79.1	MEAN
MAX	95	70	42	44	78	100	136	115	125	163	144	88	MAX
MIN	70	28	38	36	36	38	33	95	100	108	90	68	MIN
AC. FT.	4710	2440	2420	2370	2640	3050	3550	6590	7040	7650	6670	4710	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN	DISCHARGE	MAXIMUM	GAGE MT.	MO.	DAY	TIME	MINIMUM	GAGE MT.	MO.	DAY	TIME	TOTAL
74.4	163	7	28	7	28	Daily	28	11	10	10	Daily	53830

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CF5	GAGE HT	DATE			FROM	TO	
36 59 04	119 43 24	SW 7 11S 21E	77,000 12,400 ^a	23.8 11.69	12-11-37 6-6-69	OCT 07-DATE		1938		294.00
Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles. a Maximum flows since construction of Friant Dam in 1944.										

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C00200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

NO FLOW

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 39 06	120 10 45	SW 1 15S 16E	5600	12.22	6-7-69	APRIL 29-DATE					
Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period 1953 through 1975 are available from their office in Sacramento. Records since 1969 have been published in the Bulletin No. 130 series of reports.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4333		0	0	4497	4787	4161	4722	3318	4633	4588	4436	1
2	4450		0	0	4527	4777	4792	4717	3687	4644	4578	4040	2
3	4345		0	0	4506	4782	4752	4727	4046	4633	4568	3944	3
4	4344		0	0	4361	4750	4735	4705	4056	4635	4540	3970	4
5	4333		0	0	4485	4772	4751	4699	4083	4649	4583	3965	5
6	4357		0	0	4496	4764	4716	4704	4082	4678	4572	3968	6
7	4363		0	1071	4486	4472	4718	4628	4073	4634	4571	3968	7
8	4360		0	1684	4375	4111	4738	4759	4072	4638	4193	3979	8
9	4371		0	2309	4474	4116	4739	4764	4052	4670	4593	3965	9
10	4352		0	2723	4509	4113	4317	4764	4045	4639	4583	3978	10
11	4353		0	2637	4673	4116	3860	4739	4023	4641	4578	3974	11
12	4351		0	3202	4714	4086	3735	4757	4053	4637	4615	3975	12
13	4348	N	0	3209	4743	4127	3714	4288	4034	4635	4624	3974	13
14	4363	O	0	3236	4254	3681	3535	4140	4042	4641	4606	3958	14
15	4372		0	3192	3936	2625	3238	3582	4060	4633	4589	3979	15
16	4298	F	0	3252	3941	2461	3230	3387	4006	4626	4600	3981	16
17	3921	L	0	3400	3934	2452	3229	3356	4032	4632	4536	3971	17
18	3860	O	0	3486	3934	2455	3226	3367	4016	4584	4492	3967	18
19	3875	W	92	3486	3930	2946	3224	3372	4043	4583	4352	3861	19
20	3872		224	3475	3959	3377	3219	3367	4033	4533	4380	3760	20
21	3872		0	3482	3951	3372	3466	3338	3963	4524	4371	3748	21
22	3403		0	3483	3918	3372	4445	3377	3917	4529	4385	3755	22
23	2701		0	3509	3931	3887	4737	3375	3938	4581	4376	3764	23
24	2437		0	3492	3422	3364	4734	3336	4009	4602	4347	3730	24
25	2471		0	3952	3228	3398	4745	3360	3947	4562	4377	2810	25
26	1865		0	3948	3299	3383	4734	3346	4010	4613	4404	2294	26
27	1664		0	3943	4209	3383	4728	3366	3992	4618	4415	2397	27
28	1676		0	3944	4588	3373	4720	3371	4001	4602	4409	2302	28
29	1080		0	4129		3413	4727	3342	4005	4592	4422	2295	29
30	243		0	4489		4043	4729	3343	4245	4588	4487	2313	30
31	0		0	4568		4092		3333		4568	4458		31
MEAN	3435		10	2687	4195	3760	4213	3949	3996	4612	4490	3637	MEAN
MAX.	4450		224	4568	4743	4787	4792	4764	4245	4678	4624	4436	MAX.
MIN.	0		0	0	3228	2452	3219	3333	3318	4524	4193	2295	MIN.
AC. FT.	21164.0		627	165228	232300	231177	250702	242842	237788	283595	276087	216442	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 3244	DISCHARGE 4792 GAGE HT 4 DAY 2 TIME Daily Mean	DISCHARGE 0 GAGE HT 10 DAY 31 TIME Daily Mean	ACRE FEET 2348428

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 47 49	121 35 03	SW31 1S 4E	4935		8-11-69	JUN 51-DATE		1951		0.00	USGS
Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1809	531		0	1045	1263	1500	1991	2300	2583	2875	1806	1
2	1794	507		0	1062	1292	1638	2050	2460	2764	2826	1743	2
3	1778	495		0	1003	1434	1755	2086	2545	2730	2813	1679	3
4	1741	520		0	831	1646	1987	2086	2666	2615	2795	1672	4
5	1733	553		0	817	1579	2010	2079	2664	2574	2916	1710	5
6	1706	554		0	793	1245	2010	2053	2732	2439	2882	1832	6
7	1701	583		0	726	929	1674	2119	2748	2428	2883	1863	7
8	1578	567		0	686	887	1537	2192	2763	2620	2960	1687	8
9	1537	541		0	675	905	1456	2244	2789	2747	2978	1587	9
10	1542	516		1000	695	914	1451	2256	2907	2848	2994	1508	10
11	1561	462		1000	833	938	1493	2256	2880	2845	3033	1524	11
12	1561	445		1000	931	951	1493	2171	2798	2861	2949	1560	12
13	1560	455	N	549	827	930	1493	2201	2748	2876	2831	1451	13
14	1530	420	O	585	829	703	1489	2291	2704	2838	2898	1438	14
15	1326	225		515	688	552	1375	2435	2749	2820	2811	1441	15
16	1318	175	F	460	556	551	1369	2257	2789	2856	2751	1530	16
17	1278	150	L	456	525	561	1401	2234	2896	2847	2690	1619	17
18	1122	135	O	456	520	753	1367	2234	2875	2705	2530	1706	18
19	1190	100	W	508	664	796	1398	2237	2853	2659	2429	1645	19
20	1190	50		636	769	968	1399	2246	2711	2614	2329	1706	20
21	998	50		731	793	902	1557	1988	2629	2656	2398	1721	21
22	728	75		858	844	875	1660	1965	2629	2569	2400	1784	22
23	860	75		853	833	875	1792	1971	2616	2714	2425	1795	23
24	818	75		843	833	861	1896	2071	2450	2934	2425	1924	24
25	847	75		866	914	944	1979	2105	2482	2917	2409	1966	25
26	852	50		884	1235	912	2040	2137	2472	2917	2375	1918	26
27	851	50		915	1362	1035	2053	2279	2489	2938	2329	1896	27
28	795	25		961	1267	1023	1859	2305	2489	2992	2226	1895	28
29	655	0		1024		1048	1736	2258	2490	3020	2132	1922	29
30	598	0		1032		1075	1850	2233	2551	2877	2067	1915	30
31	595			971		1408		2248		2932	2002		31
MEAN	1809	583		1032	1362	1646	2053	2435	2907	3020	3033	1966	MEAN
MAX.	595	0		0	520	551	1367	1965	2307	2428	2002	1438	MAX.
MIN.	77728	16778		33924	46654	61003	98614	133446	158444	170055	161380	102037	MIN.
AC. FT.													AC. FT.

E — ESTIMATED
 NR — NO RECORD
 + — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
											1060063

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 47 11	120 23 05	NW19 13S 15E									
Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	256	145	59	8	48	247	272	249	403	490	470	325	1
2	254	145	52	6	46	249	271	265	411	492	481	322	2
3	254	143	48	9	36	249	270	286	441	490	490	310	3
4	238	141	45	0	27	264	258	291	444	487	495	299	4
5	223	141	39	0	23	270	240	315	447	495	491	296	5
6	223	141	32	0	21	223	238	345	470	495	504	291	6
7	190	136	27	0	20	206	234	356	492	495	513	296	7
8	159	136	23	0	19	182	213	369	487	490	510	298	8
9	150	136	20	0	20	180	204	377	476	476	507	288	9
10	141	136	17	0	19	178	184	387	461	476	507	286	10
11	139	136	16	1	16	178	184	398	458	473	513	279	11
12	139	134	0	5	20	180	184	400	461	473	519	281	12
13	139	134	0	9	23	176	184	395	458	476	519	284	13
14	136	132	0	16	23	143	186	374	490	478	516	284	14
15	146	131	0	23	23	119	182	371	516	478	516	291	15
16	155	127	0	25	24	110	170	371	510	481	510	308	16
17	155	122	0	26	24	122	167	356	501	481	507	315	17
18	154	119	0	26	26	154	167	340	484	481	501	328	18
19	154	114	0	25	27	198	168	343	487	484	478	330	19
20	154	111	0	23	27	238	167	345	498	501	476	330	20
21	157	106	0	23	73	254	176	356	498	516	470	330	21
22	167	105	0	22	141	270	204	361	501	519	461	330	22
23	170	118	0	20	146	272	238	379	507	510	447	330	23
24	170	134	0	19	174	261	240	387	498	510	450	335	24
25	168	129	0	19	213	242	242	390	495	507	456	361	25
26	168	124	0	19	230	258	245	384	495	501	444	366	26
27	167	119	0	54	234	263	245	382	495	504	406	377	27
28	150	113	0	82	245	256	256	366	495	498	366	377	28
29	121	98	0	72	258	256	256	377	492	473	330	377	29
30	118	75	0	64	272	252	252	384	492	461	330	364	30
31	129		0	53	274		274	398		464	328		31
MEAN													MEAN
MAX.	256	145	59	82	245	274	272	400	516	519	519	377	MAX.
MIN.	118	75	0	0	16	110	167	249	403	461	328	279	MIN.
AC. FT.	10400	7500	750	1240	3900	13370	12890	22010	28500	30060	28780	19020	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO.	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	MO.	DAY	TIME	TOTAL AC. FEET
246	519	4.31	8	13	1900	0		12	12		178420

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
36 48 37	120 22 35	SW 7 13S 15E	11740a 8840	13.75	6-20-41 6- 1-52	OCT 39-DATE			1939 1954	1953	USBR USBR
Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55	5	146	0	12	12	12	0	7	12	12	12	1
2	46	4	99	0	12	12	8	0	7	8	12	12	2
3	42	3	68	0	4	7	0	0	12	9	12	12	3
4	38	3	50	0	0	0	0	0	12	12	8	12	4
5	34	4	23	0	0	9	0	0	12	12	9	12	5
6	30	3	5	0	0	9	0	0	12	6	12	12	6
7	27	2	0	4	0	0	0	0	12	4	12	12	7
8	24	2	0	21	0	0	0	0	12	12	12	12	8
9	19	0	0	28	0	0	0	4	12	12	12	12	9
10	16	0	0	198	0	0	0	3	7	12	12	5	10
11	12	0	0	218	0	0	0	0	0	8	12	0	11
12	8	0	0	116	0	0	0	9	9	0	12	0	12
13	6	0	0	98	0	0	0	12	12	9	12	0	13
14	5	0	0	152	0	0	8	3	12	12	12	0	14
15	5	0	0	285	0	0	12	0	12	7	12	0	15
16	5	0	0	235	0	0	4	7	12	0	12	0	16
17	8	0	0	238	0	0	0	0	12	9	12	0	17
18	8	0	0	242	0	0	0	0	12	12	12	0	18
19	8	0	0	242	0	0	0	0	12	12	12	0	19
20	8	0	0	242	5	0	0	0	12	7	12	0	20
21	8	0	12	255	12	0	0	0	12	9	12	0	21
22	9	0	13	260	3	0	0	0	12	12	12	0	22
23	9	0	22	277	0	0	8	0	12	12	12	0	23
24	11	0	14	288	0	0	0	9	12	12	12	0	24
25	11	47	1	290	5	0	0	8	12	12	12	0	25
26	11	180	0	282	12	0	0	0	12	12	12	0	26
27	11	210	0	217	12	0	0	7	12	12	12	0	27
28	14	205	0	8	12	0	0	12	12	12	12	0	28
29	12	198	0	12	0	0	0	12	12	12	12	0	29
30	6	178	0	12	0	0	0	12	12	12	12	0	30
31	4	0	0	12	0	8	0	12	12	12	12	0	31
MEAN													MEAN
MAX	55	210	146	290	12	12	12	12	12	12	12	12	MAX
MIN.	4	0	0	0	0	0	0	0	0	0	8	0	MIN.
AC. FT.	1010	2070	900	8390	177	113	121	228	650	600	700	224	AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
21.0	345	0	15183
	GAGE HT	GAGE HT	
	2.15	11	
	MO	DAY	
	1	10	
	2000		
	TIME	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO OH GAGE	REF.	DATUM
			CFS	GAGE HT	DATE						
36 59 38	120 30 02	N 12 11 S 13 E	8920a 8200	10.52b	6-24-41 6- 5-52	OCT 40-DATE		1945	1944	116.5	USED
Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944. b Gage height at site and datum then in use.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B67325	FRESNO RIVER, LEWIS FORK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.1 *	17	13	27	24	62	79	118	119	57	16	6.3	1
2	3.4	14	13	25	46	60	73	122	117 *	59	7.5	6.2	2
3	7.0	11	65	15	32	58	74 *	138	146	67	6.8	5.2	3
4	4.5	11	126 *	15	37	57 *	71	151	143	65	6.7	5.0	4
5	4.4	10	50	17	31 *	98	61	120	143	63	6.8	4.7	5
6	3.8	10	33	50	32	143	76	108 *	125	60	6.7	3.8	6
7	4.2	11	28	49	36	143	71	107	139	56	8.2	3.6	7
8	5.2	13 *	25	77	39	150	72	121	137	52	6.0	4.1	8
9	4.9	12	23	45 *	193	117	72	135	138	50	7.5	4.7	9
10	4.6	12	21	34	143	100	79	142	136	49	6.8	5.1	10
11	4.6	11	21	30	80	90	77	145	128	47	6.9	5.1	11
12	4.1	11	21	28	61	85	76	149	118	44	6.8	4.5	12
13	3.8	12	20	27	98	81	81	150	116	42	6.9	4.5	12
14	3.8	11	19	27	85 *	74	104	150	116	41	6.8	4.5	14
15	3.7	11	19	26	59	72	108	153	114	38	6.8	4.4	15
16	3.6	12	20	25	52	80	93	167	114	31	6.8	4.3	16
17	4.3	13	19	24	45	67	84	168	113	30	7.5	4.8	17
18	4.3	13	18	24	43	64	79	169	113	29	8.2	4.4	18
19	2.8	13	18	25	43	67	77	166	111	28	10	3.0	19
20	3.0	13	18	24	56	67	80	157	108	26	11	3.0	20
21	3.2	21	18	24	46	69	95	140	101	25	11	3.0	21
22	3.3	28	18	24	41	87	100	136	87	24	6.4	2.8	22
23	3.7	16	13	23	40	72	99	136	84	23	5.1	2.5	23
24	4.0	14	20	23	41	75	115	141	83	22	5.2	2.8	24
25	4.3	14	27	23	42	335	178	144	81	21	5.4	2.9	25
26	5.1	13	23	23	45	159	113	138	80	20	5.4	2.9	26
27	4.7	13	17	22	49	110	101	136	79	19	5.5	2.8	27
28	43	12	21	17	55	90	103	132	65	18	5.4	3.0	28
29	18	12	18	21	82	108	124	61	18	18	6.1	3.3	29
30	11	13	16	20	82	113	120	58 *	19	19	6.1	3.3	30
31	14		17	18	88		116		18	18	5.9		31
MEAN	6.3	13.2	25.9	27.5	56.9	96.3	91.1	139	109	37.5	7.2	4.0	MEAN
MAX	43	28	128	77	193	335	178	169	146	67	16	6.3	MAX
MIN	2.1	1.0	13	15	24	57	71	107	58	18	5.1	2.5	MIN
AC. FT.	390	787	1591	1690	3162	5919	5419	8527	6492	2303	445	239	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
51.1	572	1.6	36960
	GAGE HT	GAGE HT	
	2.84	0.90	
	MO	MO	
	3	10	
	25	1	
	1000	1645	
	TIME	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE					
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE		1961	0.00	LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,300 feet, from topographic map. Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9 *	4.3	2.2	2.7	7.0 E	12 E	18	23	14	5.7	3.6	2.4	1
2	1.2	3.2	2.2	2.7	15 E	10 E	17	23	13 *	5.7	3.7	2.3	2
3	1.6	2.7	16	2.8	11 E	11 E	17 *	25	13	5.6	3.6	2.2	3
4	1.5	2.4	25	3.0	15 E	12 #	16	28	12	5.5	3.4	2.1	4
5	1.4	2.3	8.9	3.0	11 E	23	17	23	11	5.4	3.4	2.0 *	5
6	1.3	2.3	5.5	7.9	10 E	46	16	21 *	10 *	5.6	3.3	1.9	6
7	1.2	2.2	4.4	9.3	12 E	40	15	21	10	5.8	3.3	1.9	7
8	1.3	2.3 *	3.8	17	15 E	41	14	24	9.6	5.6	3.2 *	1.8	8
9	1.4	2.4	3.5	8.2	65 E	30	15	26	9.3	5.4	3.0	2.2	9
10	1.4	2.3	3.2	6.7	55 E	25	16	27	8.9	5.4	2.8	2.2	10
11	1.4	2.2	3.1	5.8	14 E	22	17	28	8.6	5.2	2.8	2.2	11
12	1.3	2.0	3.1	5.2	6.0 E	21	18	29	8.3	5.0	2.8	2.1	12
13	1.2	1.9	3.0 *	5.0	24 E	20	20	30	8.1	4.9	2.7	1.9	13
14	1.2	1.8	2.9	4.8 E	26 E	18	23	30	8.6	4.9	2.7	1.8	14
15	1.1	1.9	2.8	4.6 E	9.0 E	17	22	30	7.6	4.8	2.7	1.7	15
16	1.1	1.8	2.8	4.4 E	6.0 E	19	19	29	7.3	4.7	2.7	1.6	16
17	1.0	1.8	2.7	4.3 E	5.0 E	16	18	28	7.6	4.8	2.6	1.7	17
18	1.0	1.9	2.7	4.3 E	4.0 E	16	17	28	7.8	4.8	2.6	1.7	18
19	1.0	1.9	2.6	4.4 E	4.0 E	17	17	28	7.9	4.6	3.4	1.6	19
20	1.0	2.0	2.6	4.3 E	7.0 E	17	19	26	7.9	4.5	3.8	1.5	20
21	1.0	3.3	2.6	4.3 E	5.0 E	17	21	22	7.7	4.5	4.5	1.5	21
22	1.0	10	2.7	4.3 E	4.0 E	19	21	20	7.3	4.3	3.6	1.4	22
23	1.1	4.1	2.6	4.3 E	5.0 E	17	21	20	7.0	4.1	3.1	1.4	23
24	1.1	3.2	2.6	4.3 E	8.0 E	19 *	23	28	7.1	3.9	2.8	1.4	24
25	1.2	2.8	2.5	4.3 E	11. E	118	34	32	7.4	3.8	2.7	1.4	25
26	1.2	2.6	2.6	4.5 E	14 E	43	24	19	6.9	3.8	2.5	1.3	26
27	1.4	2.4	2.6	4.3 E	15 E	30	21	18	6.7	3.8	2.5	1.3	27
28	9.5	2.3	3.5	4.0 E	15 E	24	21	17	6.4	3.6	2.5	1.3	28
29	4.7	2.3	3.0	3.8 E		20	22	16	6.2	3.6	2.5	1.3	29
30	3.0	2.2	2.9	3.7 E		19	23	15	6.0 *	3.7	2.5	1.2	30
31	3.5		2.6	3.6 E		20		15		3.7	2.9		31
MEAN	1.7	2.7	4.3	5.0 E	14 E	25.1	19.4	24.2	8.6	4.7	3.0	1.7	MEAN
MAX	9.5	10	25	17	65 E	118	34	32	14	5.8	4.5	2.4	MAX
MIN.	0.9	1.8	2.2	2.7	4.0 E	10 E	14	15	6.0	3.6	2.5	1.2	MIN.
AC. FT.	106	160	264	309 E	789 E	1545	1154	1486	514	291	187	104	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN
DISCHARGE
9.5

MAXIMUM			
DISCHARGE	GAGE HT	MO.	DAY
220	5.56	3	25
0900			

MINIMUM			
DISCHARGE	GAGE HT	MO.	DAY
0.5	2.49	10	2
1445			

TOTAL
ACRE FEET
6909

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT	DATE			FROM	TO	
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE		1959		0.00
Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).										
LOCAL										

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B67285	MIAMI CREEK AT HIGHWAY 49 NEAR AHWAHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.4	8.0	8.9	14	14	41	39	18	3.6	0.8	0.3	1
2	0.0	1.2	8.7	9.5	31	12	34	38	18 *	3.4	0.8	0.3	2
3	0.0	1.0	23	9.6	22	13	34 *	44	17	2.6	1.0	0.4	3
4	0.0	1.2	40 *	10	31	17 *	34	62	16	2.3	1.0	0.3	4
5	0.0	1.5	15	9.8	23 *	50	80	43	14	1.1	0.7	0.2 *	5
6	0.0	1.6	7.8	19	21	186	92	38 *	13	0.7	0.9	0.2	6
7	0.0	2.0	5.6	22	23	175	56	35	13	1.2	0.6	0.2	7
8	0.0	2.0 *	5.6	35	30	194	48	37	13	1.4	0.5 *	0.4	8
9	0.1	2.4	5.9	21 *	146	111	42	40	13	1.7	0.2	0.3	9
10	0.1	2.2	5.3	12	109	87	43	41	13	2.3	0.2	0.2	10
11	0.0	2.4	4.8	9.8	28	72	41	42	11 *	2.0	0.5	0.3	11
12	0.0	2.4 *	4.2	8.2	12	73	40	43	8.7	1.9	0.9	0.4	12
13	0.0	2.2	3.9 *	7.6	48	66	43	43	7.4	1.7	0.9	0.5	13
14	0.0	2.7	3.8	7.3 *	52 *	63	80 *	43 *	6.1	1.9	0.9	0.5	14
15	0.0	2.8	4.2	7.2	17	46	101	43	6.5	1.7 *	1.0	0.4	15
16	0.1	2.9	4.4	7.2	11	68	72	42	6.6	1.9	1.0	0.3	16
17	0.6	2.9	4.9	7.8	7.0	45 *	57	41	8.0	1.6	1.1	0.3	17
18	0.1	2.5	5.2	8.0	5.9	36	49	39	5.7	1.3	1.2	0.3 *	18
19	0.1	2.4	5.4	7.9	6.1	36	45	39	5.7	1.3	1.6	0.3	19
20	0.1	2.4	5.5	8.2	15	34	44	38	5.3	1.3	1.7	0.2	20
21	0.0	3.2 *	5.9	8.2	8.0	39	45	31	5.5	1.6 *	1.8 *	0.2	21
22	0.1	6.2	6.3	8.2	6.2	126	43	29	4.9	1.3	1.4	0.3	22
23	0.2	3.2	6.3	8.3	10	53	39	30	6.5 *	1.0	0.7	0.3	23
24	0.2	3.1	6.3	9.0	16 *	50	42	29	6.5	0.9	0.6	0.3	24
25	0.3	3.5	6.6	9.1	22 *	339 *	93	29	6.7	1.1	0.6	0.1	25
26	0.4	4.3	6.9	8.9	28	247	55	28	6.6	1.2	0.6	0.1	26
27	0.7	4.7	6.9	9.2	30	117	42	26	8.0	1.1	0.4	0.1	27
28	4.5	5.3	10	9.3	31	77	40	25	9.2	0.9	0.4	0.1	28
29	0.8	6.3	8.9	9.3		59	40	23	9.4	0.8	0.4	0.0	29
30	0.1	7.5	9.0	9.3		51	40	21	6.1 *	0.6	0.4	0.0	30
31	1.0		8.7	9.3		49		20		0.7	0.3		31
MEAN	0.3	3.0	8.2	10.8	28.7	84.0	51.8	36.2	9.6	1.6	0.8	0.3	MEAN
MAX.	4.5	7.5	40	35	146	339	101	62	18	3.6	1.8	0.5	MAX.
MIN.	0.0	1.0	3.8	7.2	5.9	12	34	20	4.9	0.6	0.2	0.0	MIN.
AC. FT.	19	177	502	663	1593	5167	3084	2223	572	95	50	15	AC. FT.

E — ESTIMATED

NE — NO RECORD

* — DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

— E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT.	MO.	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT.	MO.	DAY	TIME	TOTAL
19.6	477	7.28	3	25	1000		0.0	2.32	10	1	0000		14160

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE						
37 20 50	119 43 00	SW 6 7S 21E	913E	8.24	1-16-70	OCT 69-DATE		1969		0.00	LOCAL

Station located 4.0 miles west of Oakhurst on State Highway 49. Recorder installed on the downstream side of bridge. Tributary to Fresno River. Drainage area 31.6 square miles. Recorder installed 10-15-69. Altitude of gage is approximately 2030 feet (from topographic map).

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B4GT25	FRESNO RIVER HIGH WATER WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.0	0.0	45	71	16				1
2			0.0	0.0	0.0	0.0	40	71	26				2
3			0.0	0.0	53	0.0	32	62	0.0				3
4			0.0	0.0	164	0.0	27	53	2.0				4
5			0.0	0.0	119	0.0	25	47	3.0				5
6			0.0	0.0	85	77	115	36	0.0				6
7			8.4	0.0	38	205	205	26	5.0				7
8			48	0.0	36	138	166	0.0	3.0				8
9			7.4	0.0	268	480	128	0.0	2.0				9
10			5.0	68	272	240	122	0.0	0.0				10
11			3.6	68	153	200	145	0.0	0.0				11
12			1.0	27	50	188	110	0.0	0.0				12
13	N	N	0.0	3.6	199	155	100	0.0	2.0	N	N	N	13
14	O	O	0.0	1.7	217	183	91	0.0	1.0	O	O	O	14
15			0.0	7.0	130	279	164	0.0	0.0				15
16	F	F	0.0	8.4	75	190	263	0.0	5.0	F	F	F	16
17	L	L	0.0	6.0	52	267	213	0.0	3.0	L	L	L	17
18	O	O	0.0	4.5	25	183	183	0.0	2.0	O	O	O	18
19	W	W	0.0	4.5	10	125	158	21	2.0	W	W	W	19
20			0.0	8.4	9.0	125	135	42	5.0				20
21			0.0	8.4	20	115	109	10	6.0				21
22			0.0	7.4	0.0	115	105	14	5.0				22
23			0.0	6.7	0.0	510	95	10	2.0				23
24			0.0	5.3	0.0	205	73	7.2	0.0				24
25			0.0	0.0	0.0	172	78	7.2	0.0				25
26			0.0	0.0	0.0	872	150	0.0	0.0				26
27			0.0	0.0	0.0	229	164	0.0	0.0				27
28			0.0	0.0	0.0	169	101	0.0	0.0				28
29			0.0	0.0	0.0	75	101	4.0	0.0				29
30			0.0	0.0	0.0	60	71	2.0	0.0				30
31			0.0	0.0	0.0	60	60	4.0					31
MEAN			2.4	7.6	70	181	117	16	3.2				MEAN
MAX.			48	68	272	872	263	71	26				MAX.
MIN.			0.0	0.0	0.0	0.0	25	0.0	0.0				MIN.
AC. FT			144	467	3908	11160	6969	966	188				AC. FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	MINIMUM	DISCHARGE	TOTAL
32.9	1116	3.72	3 26 1600	0	10 1	23802

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 58 30	120 12 12	NE15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE		1936		0.00	LOCAL
Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B64300	CHOWCHILLA RIVER, WEST FORK NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0 *	0.2	0.8	1.9	28	19	46	33	7.7	2.2			1
2	0.0	0.5	0.8	1.8	551	17	41	31 *	7.2	2.2			2
3	0.0	0.5	22	1.8	163	17	41 *	33	7.2	2.1			3
4	0.0	0.4	59 *	1.8	308	17 *	40	38	6.9	2.0			4
5	0.0	0.4	9.6	1.7	118 *	47	103	31	6.3 *	2.0			5
6	0.0	0.4	4.0	8.1	52	145	97	30	5.8	1.8			6
7	0.0	0.4	2.8	11	41	169	84	29	5.3	1.6	*		7
8	0.0	0.5 *	2.2	84	41	149	92	27	5.1	1.5			8
9	0.0	0.5	1.9	32 *	470	78	93	25	4.6	1.4			9
10	0.0	0.6	1.7	15	501	71	83	25	4.3	1.2			10
11	0.0	0.6	1.6	9.7	106	60	76	24	4.0 *	1.1			11
12	0.0	0.6	1.5	7.2	60	57	67	23	3.6	1.0			12
12	0.0	0.5	1.5	6.1	132	68	60	22	3.7	0.9	N	N	13
14	0.0	0.5	1.4	5.4	94 *	64	78	21	3.3	0.9	O	O	14
15	0.0	0.5	1.4	4.9	53	64	137	20	3.1	0.9			15
16	0.0	0.6	1.4	4.5	42	109	106	21	2.9	1.2	F	F	16
17	0.0	0.6	1.3	4.1	35	74	82	20	2.9	1.3	L	L	17
18	0.0	0.6	1.3	4.0	31	58	66	18	3.1	1.2	O	O	18
19	0.0	0.6	1.2	3.7	30	51	62	17	3.2	1.0	W *	W	19
20	0.0	0.7	1.2	3.7	42	46	55	17	3.1	0.9			20
21	0.0	1.8	1.2	3.5	32	56	52	16	3.1	0.8			21
22	0.0	5.9	1.3	3.3	27	285	47	15	3.0	0.7			22
23	0.0	2.1	1.2	3.2	25	63	43	14	2.8 *	0.6			23
24	0.0	1.4	1.1	3.1	24	67	45	14	2.8	0.6			24
25	0.0	1.1	1.1	3.1	23	296 *	53	12	3.1	0.5			25
26	0.0	1.0	1.1	3.1	21	132	43	12	3.0	0.4			26
27	0.0	0.9	1.2	3.1	20	90	39	11	2.9	0.2			27
28	0.2	0.9	3.3	2.9	20	71	36	10	2.6	0.1			28
29	0.3	0.8	2.4	2.9		62	35 *	9.5	2.4	0.0			29
30	0.1	0.8	1.8	3.0		56	34	8.8	2.2 *	0.0			30
31	0.2		1.8	2.9		53		8.1		0.0			31
MEAN	0.0	0.9	4.4	8.0	110	66.2	64.7	20.5	4.1	1.0			MEAN
MAX.	0.3	5.9	59	84	551	296	137	38	7.7	2.2			MAX.
MIN.	0.0	0.2	0.8	1.7	20	17	34	8.1	2.2	0.0			MIN.
AC. FT.	2	54	270	489	6129	5298	3848	1260	241	64			AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	MO	DAY	TIME	DISCHARGE	MAXIMUM	MO	DAY	TIME	TOTAL
24.4	1170	6.53	2	9	0530	0.0	1.35	10	1	0000	17650

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957	0.00	LOCAL	

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0 *	0.0	0.0	52 *	7.0 *				8.0	1
2				0.0	0.0	0.0	24	0.6				0.0 *	2
3				0.0	0.0	0.0	8.0	2.1				0.0	3
4				0.0	28	0.0 *	0.6	1.6				0.0	4
5				0.0	142	0.0	0.6	0.0				0.0	5
6				0.0	539 *	0.0	0.3	0.0				0.0	6
7				0.0	280	0.0	44	0.0				0.0	7
8				0.0	104	0.0	323	0.0				0.0	8
9				0.0	48	328	300	0.0				0.0	9
10				0.0	182	581	204	0.0				0.0	10
11				0.0	1010	336	136	0.0				0.0	11
12				0.0	976	282	110	0.0				0.0	12
13	N	N	N	0.0	443	224 *	88	0.0	N	N	N	0.0	13
14	O	O	O	0.0	240	214	54	0.0	O	O	O	0.0	14
15				0.0	396 *	224	42	0.0 *				0.0	15
16	F	F	F	0.0	443	280	45 *	0.0	F	F	F	0.0	16
17	L	L	L	0.0	270	260	122	0.0	L	L	L	0.0	17
18	O	O	O	0.0	165 *	298 *	163	0.0	O	O	O	0.0	18
19	W	W	W	0.0	78	278	112	0.0	W	W	W	0.0	19
20				0.0 *	49	140	77	0.0				0.0	20
21				0.0	24	74	54	0.0				0.0	21
22				0.0	16	49	33	0.0				0.0	22
23				7.5	5.8	226	22	5.8				0.0	23
24				5.8	14	546	20	0.0				0.0	24
25				2.7	2.4	300	3.0	0.0				0.0	25
26				0.0	0.0	306 *	0.0	0.0				0.0	26
27				0.0	0.0	934	0.0	0.0				0.0	27
28				0.0	0.0	684	12	0.0				0.0	28
29				0.0		308	20	0.0				0.0	29
30				0.0		57	114	0.0				0.0	30
31				0.0		77		0.0				0.0	31
MEAN				0.5	195	226	69	0.6				0.3	MEAN
MAX.				7.5	1010	934	323	7.0				8.0	MAX.
MIN.				0.0	0.0	0.0	0.0	0.0				0.0	MIN.
AC. FT.				32	10820	13900	4133	34				16	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN
DISCHARGE
40

MAXIMUM				
DISCHARGE	GAGE HT.	MO	DAY	TIME
1340	12.14	2	11	2200

MINIMUM				
DISCHARGE	GAGE HT.	MO	DAY	TIME
0	5.14	10	1	0015

TOTAL
ACRE FEET
28930

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B & M	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CF5	GAGE HT	DATE			FROM	TO	
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		90.00
Station located on left bank 2.8 miles below Washington Road and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.										

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		3.9	1.0	3.7	84	26	69	37	7.6	1.8			1
2		3.5	0.8	3.2	1550	24	61	36 *	7.2	1.8			2
3		2.1	100	2.8	594	22 *	56 *	34	7.1	1.8			3
4		1.5	254 *	2.7	626	22	53	39	6.8	1.8			4
5		1.3	44	2.4	315	40	188	33	6.3 *	1.8			5
6		1.2	18	26	140 *	184	231	30	5.6	1.6			6
7		1.2 *	11	46	97	376	185	29	5.2	1.4			7
8		1.5	8.2	271	78	316	179	28	5.0	1.2			8
9		1.6	6.7	105 *	516	148	172	26	4.3	1.1			9
10		1.6	6.1	44	738	147	150	25	3.8	1.0			10
11		1.5	5.7	26	199	126	117	24	3.5 *	0.8			11
12		1.5	5.3	19	120	101	98	23	3.3	0.7			12
13	N	1.3	5.1	15	364	117	84	21	3.2	0.7	N	N	13
14	O	1.4	5.0	13	262 *	135	84	20 *	2.9	0.6		O	14
15		1.5	5.0	11	139	128	148	19	2.7	0.7			15
16	F	1.5	5.1 *	9.5	102	259	136	19	2.6	0.9	F	F	16
17	L	1.6	4.7	8.3	79	185	115	18	2.6	1.1	L	L	17
18	O	1.6	4.3	7.8	64	137	96	17	2.9	1.0	O	O	18
19	W	1.7	4.1	7.1	57	111	83	16	3.1	0.9	W	W	19
20		1.6	3.8	6.5	77	93	74	16	3.3	0.8			20
21		3.9	3.6	6.0	58	88	68	16	3.2	0.7			21
22		17	3.5	5.6	47	612	62	15	3.0	0.6			22
23		6.3	3.1	5.3	43	183	55	14	2.7 *	0.6			23
24		3.5	2.8	5.1	39	139	49	13	2.8	0.5			24
25		2.5	2.7	4.9	36	502 *	53	13	3.2	0.5			25
26		1.9	2.6	4.8	32	235	53	12	2.9	0.4			26
27		1.6	2.7	4.6	30	159	46	11	2.5	0.3			27
28		1.4	11	4.3	28	126	42	10	2.3	0.3			28
29		1.2	7.7	4.4		104	39 *	9.5	2.0	0.3			29
30		1.0	5.0	4.3		90	38	8.7	1.9 *	0.2			30
31			4.4	4.3		81		8.1		0.2			31
MEAN		2.5	17.7	22.1	233	162	96.1	20.7	3.9	0.9			MEAN
MAX.		17	254	271	1550	612	231	39	7.6	1.8			MAX.
MIN.		1.0	0.8	2.4	28	22	38	8.1	1.9	0.2			MIN.
AC. FT.		149	1085	1356	12920	9949	5720	1270	229	56			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
45	2320	0	32730
	GAGE HT. 8.46	GAGE HT. 2.08	
	MO 2	MO 10	
	DAY 2	DAY 1	
	TIME 1345	TIME 0015	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 23 55	120 00 10	NE21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	7.2	2.7	9.2	47	28	3.1	2.1			1
2			0.0	7.0	584	8.0	39	28	2.9	1.8			2
3			0.0	8.8	765	7.6	33	27	2.8	1.7			3
4			75	8.8	717	7.4	30	29	2.7	1.7			4
5			134	8.8	723	7.8	80	34	2.5	1.7			5
6			26	8.8	645	50	37	30	2.3	1.5			6
7			20	23	490	128	33	29	2.2	1.5			7
8			12	113	207	400	218	30	2.0	1.3			8
9			9.2	214	188	302	204	30	2.0	1.0			9
10			7.6	70	544	161	182	31	1.8	0.6			10
11			7.0	31	536	149	128	30	2.1	0.0			11
12			6.6	21	342	94	94	29	2.5	0.0			12
13	N	N	6.6	17	322	78	72	29	2.4	0.0	N	N	13
14	O	O	6.0	14	420	161	56	28	2.5	0.0	O	O	14
15			6.0	14	338	137	100	28	2.5	0.0			15
16	F	F	5.8	12	143	188	134	26	2.5	0.0	F	F	16
17	L	L	5.8	12	70	274	119	25	2.6	0.0	L	L	17
18	O	O	5.6	11	44	188	90	23	2.5	0.0	O	O	18
19	W	W	5.4	10	38	146	68	21	2.6	0.0	W	W	19
20			5.4	9.2	38	84	54	18	2.4	0.0			20
21			5.4	5.4	36	62	47	16	2.4	0.0			21
22			5.4	2.9	24	367	43	14	2.3	0.0			22
23			5.2	2.7	19	4.4	38	13	2.4	0.0			23
24			5.2	2.6	15	256	34	11	2.4	0.0			24
25			5.2	2.6	14	279	35	8.4	2.4	0.0			25
26			5.4	2.6	12	445	38	7.2	2.4	0.0			26
27			5.4	2.5	11	306	35	6.4	2.4	0.0			27
28			5.4	2.5	10	170	31	5.4	2.3	0.0			28
29			6.8	2.5		102	30	4.8	2.2	0.0			29
30			9.6	2.4		78	28	3.8	2.2	0.0			30
31			7.6	2.3		62		3.4		0.0			31
MEAN			13	21	261	166	73	21	2.4	0.5			MEAN
MAX			134	214	765	445	218	34	3.1	2.1			MAX
MIN			0.0	2.3	2.7	4.4	28	3.4	1.8	0.0			MIN
AC FT.			814	1290	14470	10200	4320	1280	143	30			AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO DAY TIME	ACRE FEET
44.9	765	2	3	32550
		Mean	Mean	
	0			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USCGS
Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	806170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.0	1.0	2.0	3.0	6.0	11	4.5	1.0	0.5	0.1	0.5	1
2	0.0	1.0	1.0	2.0	NR	5.4	10	4.5	1.0	0.5	0.0	0.5	2
3	0.0	0.5	10	2.0	NR	4.8	9.0	4.5	1.0	0.5	0.0	0.5	3
4	0.0	0.5	16	1.0	NR	4.8	9.3	3.6	1.0	0.5	0.0	0.5	4
5	0.0	0.5	7.2	2.0	128	8.1	26	3.6	1.0	0.5	0.0	0.5	5
6	0.0	0.5	3.0	2.0	124	24	42	3.6	1.0	0.5	0.0	0.3	6
7	0.1	0.5	2.0	3.9	110	22	53	3.3	1.0	0.5	0.0	0.2	7
8	0.3	0.5	2.0	7.2	89	39	28	3.3	0.5	0.4	0.0	0.3	8
9	0.5	0.5	2.0	6.3	69	13	22	3.0	0.5	0.4	0.1	0.5	9
10	0.5	0.5	2.0	4.2	91	24	15	3.0	0.5	0.4	0.2	0.5	10
11	0.5	0.5	2.0	3.0	79	18	12	3.0	0.5	0.3	0.2	0.5	11
12	0.5	0.5	2.0	3.0	25	12	11	3.0	0.5	0.3	0.3	0.5	12
13	0.5	0.5	2.0	2.0	41	25	10	3.0	0.5	0.4	0.5	0.5	13
14	0.5	0.5	2.0	2.0	73	35	9.9	3.0	0.5	0.4	0.5	0.5	14
15	0.5	0.5	2.0	2.0	26	18	12	3.0	0.5	0.3	0.5	0.5	15
16	0.5	0.5	2.0	2.0	19	50	14	3.0	0.5	0.5	0.5	0.5	16
17	0.5	1.0	2.0	2.0	15	25	11	2.0	0.5	0.5	0.5	0.5	17
18	0.5	1.0	2.0	2.0	12	19	9.0	2.0	0.5	0.4	0.5	0.5	18
19	0.5	1.0	2.0	2.0	9.6	15	7.8	2.0	0.5	0.3	0.5	0.4	19
20	0.5	1.0	2.0	2.0	12	104	7.2	2.0	0.5	0.3	0.5	0.5	20
21	0.5	1.0	2.0	2.0	10	99	7.2	2.0	0.5	0.3	0.5	0.5	21
22	0.5	4.2	2.0	2.0	9.0	92	6.6	2.0	0.5	0.3	0.5	0.5	22
23	0.5	3.0	1.0	2.0	8.1	88	6.0	2.0	0.5	0.2	0.5	0.5	23
24	0.5	2.0	1.0	2.0	7.5	31	6.0	2.0	0.5	0.0	0.5	0.5	24
25	0.5	1.0	1.0	2.0	7.5	63	6.3	2.0	0.5	0.0	0.5	0.5	25
26	0.5	1.0	1.0	2.0	6.9	71	8.1	2.0	0.5	0.0	0.5	0.5	26
27	1.0	1.0	2.0	2.0	6.3	28	6.6	2.0	0.5	0.0	0.5	0.5	27
28	1.0	1.0	2.0	2.0	6.0	22	5.7	1.0	0.5	0.0	0.5	0.5	28
29	1.0	1.0	2.0	2.0		17	4.8	1.0	0.5	0.0	0.5	0.5	29
30	0.5	1.0	2.0	2.0		15	4.5	1.0	0.5	0.0	0.5	0.5	30
31	1.0		2.0	2.0		14		1.0		0.2	0.5		31
MEAN	0.4	1.0	2.7	2.4	NR	33	13	2.6	0.6	0.3	0.3	0.5	MEAN
MAX.	1.0	4.2	16	7.2	NR	104	53	4.5	1.0	0.5	0.5	0.5	MAX.
MIN	0.0	0.5	1.0	1.0	NR	4.8	4.5	1.0	0.5	0.0	0.0	0.2	MIN.
AC. FT.	30	60	170	150	NR	2010	770	160	40	20	20	30	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
NR	NR					0					NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE						
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950	338.22	USCGS	
Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

TABLE B-3 (Cont.)													
DAILY MEAN DISCHARGE				WATER YEAR		STATION NO.		STATION NAME					
(IN CUBIC FEET PER SECOND)				1975		B05570		BEAR CREEK BELOW BEAR RESERVOIR					
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	5.0	118	22	48	35	1.8	0.2			1
2			0.0	4.4	1048	20	41	34	1.7	0.4			2
3			0.0	4.1	862	19	38	33	1.9	0.6			3
4			113	3.8	660	14	35	33	1.8	0.5			4
5			80	3.8	435	17	56	33	2.0	0.5			5
6			27	4.4	148	56	97	33	1.5	0.4			6
7			14	24	104	82	230	32	2.4	0.3			7
8			11	221	88	318	188	31	1.3	0.3			8
9			7.8	139	308	121	139	30	1.1	0.3			9
10			7.0	58	566	88	98	28	0.9	0.2			10
11			6.2	32	191	123	80	27	0.8	0.2			11
12			5.4	21	105	78	68	26	0.7	0.2			12
13	N	N	4.4	17	252	72	57	25	0.7	0.2			13
14	O	O	4.1	13	365	127	51	24	0.6	0.2	N	N	14
15			4.1	11	135	129	54	21	0.5	0.2			15
16	F	F	4.1	9.0	96	227	66	21	0.4	0.2	F	F	16
17	L	L	3.8	7.8	76	185	60	19	0.3	0.1	L	L	17
18	O	O	3.8	7.4	57	109	50	17	0.3	0.0	O	O	18
19	W	W	3.5	6.6	50	81	44	15	0.3	0.0	W	W	19
20			3.5	6.6	70	74	41	13	0.3	0.0			20
21			3.5	6.2	68	56	40	13	0.3	0.0			21
22			3.5	5.8	51	524	39	11	0.3	0.0			22
23			3.5	5.4	44	182	38	10	0.3	0.0			23
24			3.5	5.0	35	111	38	8.6	0.4	0.0			24
25			3.5	5.0	32	451	40	7.8	0.4	0.0			25
26			3.5	4.7	29	308	50	6.2	0.3	0.0			26
27			3.5	4.7	27	139	41	5.0	0.2	0.0			27
28			3.8	4.7	24	100	39	4.4	0.2	0.0			28
29			4.1	4.4		86	37	3.5	0.2	0.0			29
30			4.1	4.4		74	37	2.6	0.2	0.0			30
31			4.4	4.1		58		2.0	0.2	0.0			31
MEAN			11	21	216	131	65	20	0.8	0.2			MEAN
MAX.			113	221	1048	524	230	35	2.4	0.6			MAX.
MIN.			0	3.8	24	14	35	2.0	0.2	0.0			MIN.
AC. FT.			680	1300	11990	8040	3850	1200	48	10			AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
37.4		1120					0					27120	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS
Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	100	318	50	57	56	69	214	180	218	142	164	126	1
2	150	240	51	58	1799	65	206	172	128	134	146	144	2
3	158	210	72	56	3494	61	192	140	184	124	126	124	3
4	150	240	150	56	1840	58	198	162	162	138	122	83	4
5	96	64	240	55	1672	61	230	156	132	160	98	100	5
6	120	55	124	56	654	101	506	124	144	146	108	92	6
7	104	53	90	56	420	218	452	118	158	126	112	89	7
8	120	53	76	80	372	369	375	114	132	118	107	98	8
9	120	53	69	612	665	295	342	122	130	120	130	120	9
10	126	52	65	182	937	208	268	172	128	124	140	136	10
11	89	52	62	118	657	252	236	200	132	138	132	146	11
12	83	52	57	90	342	198	218	186	118	164	118	166	12
13	80	52	57	79	503	233	202	196	122	168	132	182	12
14	78	52	56	66	1102	604	178	196	154	166	114	202	14
15	70	52	55	61	485	368	168	182	182	160	120	162	15
16	47	51	55	58	305	480	202	182	170	168	134	156	16
17	45	51	55	57	228	495	172	186	154	158	107	164	17
18	43	51	55	56	184	395	148	208	146	164	108	162	18
19	43	50	54	55	162	440	166	206	110	172	144	182	19
20	42	50	53	54	138	164	168	196	130	182	164	164	20
21	41	52	53	54	160	138	136	190	118	158	160	162	21
22	40	54	53	54	132	1376	128	180	140	128	164	166	22
23	38	52	53	58	110	658	150	152	164	136	152	164	23
24	38	51	52	60	96	416	144	122	164	130	164	158	24
25	28	50	52	59	89	820	192	160	160	144	146	164	25
26	64	50	52	58	83	673	218	156	154	120	126	138	26
27	61	50	55	57	76	308	198	152	162	134	86	195	27
28	66	50	59	56	73	240	188	130	160	122	80	142	28
29	69	50	61	55	198	178	152	170	120	120	79	102	29
30	52	50	60	55	190	172	130	152	140	140	88	95	30
31	190		58	53	198		182		140		96		31
MEAN	82	72	69	83	601	334	218	165	152	143	125	143	MEAN
MAX.	190	318	240	612	3494	1376	506	208	218	182	164	202	MAX.
MIN.	28	50	50	53	56	58	128	114	110	118	79	83	MIN.
AC. FT.	5060	4300	4270	5120	33390	20528	12980	10120	9060	8810	7670	8500	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
179.3	4320					28					129820

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 18 34	120 26 38	SW21 7S 14E	5,542	17.35	2-11-73	NOV 56-DATE		1956		75.00 ASSUMED

Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	88	269	17	15	13	74	174	206	218	92	70	92	1
2	123	231	19	14	244	75	279	204	254	92	91	96	2
3	180	169	54	14	638	70	281	177	235	105	94	92	3
4	140	133	209	14	708	68	309	177	209	79	83	87	4
5	116	NR	239	13	694	70	339	164	148	119	83	96	5
6	88	NR	137	13	560	107	500	119	91	126	64	66	6
7	70	NR	63	15	350	202	502	75	111	107	74	58	7
8	44	NR	37	19	264	106	444	86	128	86	87	75	8
9	70	NR	26	201	328	400	411	81	126	65	110	142	9
10	61	NR	24	177	621	254	449	56	101	72	110	178	10
11	101	NR	22	80	586	251	339	86	106	74	110	216	11
12	164	NR	20	46	311	256	264	102	97	59	128	209	12
13	56	16	18	35	254	189	283	113	103	101	133	183	13
14	42	16	17	29	674	524	219	147	106	101	110	226	14
15	38	15	16	19	514	482	204	153	107	130	106	199	15
16	23	13	16	17	263	378	254	151	109	155	134	128	16
17	17	12	16	16	163	631	244	152	97	155	119	133	17
18	14	11	16	15	204	383	236	191	79	124	124	156	18
19	14	11	15	14	171	269	244	234	83	112	191	159	19
20	12	11	15	14	151	206	246	186	92	137	241	139	20
21	10	12	14	13	159	169	226	203	104	121	210	185	21
22	10	15	14	13	150	244	155	228	86	101	173	191	22
23	11	12	15	13	124	514	209	211	125	85	156	185	23
24	10	11	14	13	110	536	190	178	137	57	211	175	24
25	16	10	14	14	102	422	258	187	137	67	146	156	25
26	14	10	14	14	97	800	308	221	114	64	117	162	26
27	20	11	14	13	91	455	295	184	102	64	38	161	27
28	28	13	16	13	84	284	323	212	68	67	46	206	28
29	53	14	18	10		229	301	210	93	62	72	146	29
30	36	16	18	10		202	244	207	99	40	74	90	30
31	66		16	10		142		208		56	107		31
MEAN	57	34	38	30	308	297	291	165	122	93	117	146	MEAN
MAX.	180	269	239	201	708	800	502	234	254	155	241	226	MAX.
MIN.	10	10	14	10	13	68	155	56	68	40	38	58	MIN.
AC. FT.	3481	2045	2311	1817	17114	18242	17316	10138	7270	5703	7164	8702	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN
DISCHARGE
140

MAXIMUM
DISCHARGE
800 E
GAGE HT
9.07 E
MO
3
DAY
26
TIME
0600

MINIMUM
DISCHARGE
10
GAGE HT
0.66
MO
10
DAY
25
TIME
0300

TOTAL
ACRE FEET
101300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE						
37 15 21	120 39 08	NE 9 8S 12E				1930-					
Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.											
Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.											
Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff records dating back to 1947 are published in Bulletin No. 130-69.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.4	12	24	7.0					1
2			0.0	0.0	51	10	20	6.7					2
3			22	0.0	1163	8.5	17	6.7					3
4			22	0.0	587	8.5	16	6.1					4
5			2.8	0.0	308	14	51	4.6					5
6			0.7	0.0	142	91	184	3.4					6
7			0.2	0.0	116	39	92	3.2					7
8			0.0	4.3	108	119	50	2.8					8
9			0.0	59	282	44	43	2.6					9
10			0.0	17	243	54	28	2.2					10
11			0.0	14	126	76	23	1.7					11
12			0.0	4.9	84	37	20	1.4					12
13	N	N	0.0	3.0	210	96	16	1.4					13
14	O	O	0.0	1.7	348	240	14	1.3	N	N	N	N	14
15			0.0	1.5	116	114	14	1.0	O	O	O	O	15
16	F	F	0.0	1.3	76	222	14	0.8	F	F	F	F	16
17	L	L	0.0	1.0	58	114	14	0.8	L	L	L	L	17
18	O	O	0.0	1.0	43	74	12	0.8	O	O	O	O	18
19	W	W	0.0	0.8	34	52	10	0.7	W	W	W	W	19
20			0.0	0.8	39	40	8.5	0.5					20
21			0.0	0.7	39	32	8.0	0.3					21
22			0.0	0.7	27	580	7.5	0.2					22
23			0.0	0.6	22	160	7.0	0.0					23
24			0.0	0.6	18	94	7.0	0.0					24
25			0.0	0.5	17	301	7.0	0.0					25
26			0.0	0.5	15	152	9.0	0.0					26
27			0.0	0.5	14	94	12	0.0					27
28			0.0	0.4	12	58	9.0	0.0					28
29			0.0	0.4		43	7.5	0.0					29
30			0.0	0.3		36	7.0	0.0					30
31			0.0	0.2		30		0.0					31
MEAN			1.5	3.7	154	98	25	1.8					MEAN
MAX.			22	59	1163	580	184	7.0					MAX.
MIN.			0.0	0.0	0.4	8.5	7.0	0.0					MIN.
AC. FT.			95	230	8520	6040	1490	111					AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN
DISCHARGE
22.8

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
1356				

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0				

TOTAL	
ACRE FEET	
16490	

LOCATION			MAXIMUM DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B & M.	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CF5	GAGE HT.			FROM	TO	
37 22 27	120 16 35	NE 36 6S 15E	2590		12-24-55	APR 50-DATE	1950		USCGS
Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.									

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	143	71	44	43	56	139	447	147 *	142	51	38	129	1
2	123	200	44	41 *	117	156	325 *	135	134	49	36	130	2
3	164 *	210	65	41	815	147	297	133	137	44	32	141 *	3
4	208	185	198	42	2480	131	302	116	106	45	34 *	167	4
5	175	159	360 *	42	2610 *	112	357	114	87	41	35	156	5
6	151	89	369	42	2730	154	400	116	63 *	44	41	132	6
7	125	63	261	42	2480	186	519	82	49	50 *	43	90	7
8	106	62 *	193	44	1950	275	591	67	50	53	44	81	8
9	90	58	146	55	1520	499	830	66	50	54	44	84	9
10	92	51	88	186	1310	663	972	62	51	52	48	119	10
11	90	58	72	238	1490	955	838	59	53	50	51	148	11
12	90	53	67	198	2150	850	620	60	59	49	56	190	12
13	95	45	66	151	2090	708 *	478	61	53	47	55	215	13
14	73	54	66	118	1730	697	400	59	49	41	53	238	14
15	72	59	59	98	1790	946	252 *	63 *	48	43	64	267	15
16	68	57	57	85	1700	884	224	66	51	52	79	266	16
17	59	55	69	77	1330	966	240	88	49	87	104	234	17
18	46	53	69	71	974	1060	301	95	57	89	98	221	18
19	40	52	65	66	721	951	355	113	51	75	71	202	19
20	42	50	61	78	533	844	331	131	49	63	150	194	20
21	43	49	61	87	420	659	320	106	45	71	218	186	21
22	40	49	50	82	352	546	276	110	42	66	234	186	22
23	37	50	55	87	240	918	190	115	42	57	230	184	23
24	38	41	47	88	187	1490	157	115	41	45	244	185	24
25	41	46	43	85	144	1570	156	137	39	39	253	188	25
26	43	47	42	81	96	1360	265	161	41	35	213	196	26
27	40	45	40	79	102	1580	266	147	39	33	152	178	27
28	47	46	38	75	119	1800	258	103	57	33	119	183	28
29	53	46	42	63		1450	270	106	52	33	112	214	29
30	56	45	44	51		966	241	89	40	34	112	162	30
31	52		46	51		667		119		36	123		31
MEAN	82	71.6	94.4	83.5	1151	785	383	101	60.9	50.4	103	176	MEAN
MAX.	208	210	369	238	2730	1800	972	161	142	89	253	267	MAX.
MIN.	37	41	38	41	56	112	156	59	39	33	32	81	MIN.
AC. FT.	5042	4260	5806	5131	63940	48260	22770	6238	3622	3096	6319	10450	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL	ACRE FEET
DISCHARGE	255	DISCHARGE	2800	70.34	2	6	0515	DISCHARGE	60.89	10	23	1415	184900	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 17 42	120 50 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961	0.00	USCGS	
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	800975	PANOCHO DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	26	35	19	17	49	70	70 *	50	70	56 *	72 *	39	1
2	26 *	32	20	16 *	82	67	61	52	70	56	55	36 *	2
3	27	25	29	16	95	66	68	48	65 *	59	59	44	3
4	25	23	33	18	75	73 *	66	49	69	66	61	42	4
5	22	22	22	18	63	78	71	48	72	66	57	38	5
6	25	25	21	19	44	89	64	51	71	72	54	46	6
7	24	23 *	22	20	53	91	56	55	66	71	64	45	7
8	23	29	22 *	19	44	89	55	58	65	66	66	40	8
9	27	29	21	17	49	86	51	54	68	64	58	47	9
10	29	26	20	21	48	87	50	55	65	67	58	47	10
11	30	30	21	25	32	85	56	66	65	67	60	42	11
12	32	28	21	28	36	85	49	67	63	62	55	39	12
13	37	34 E	20	32	63	83	44	54	69	65	51	39	13
14	33	34 E	19	31	62	85	53	66	60	70	56 *	37	14
15	35	35 E	19	29	57	79	56	69 *	61	73	56	33	15
16	28 *	29	19	25	57	73	65 *	70	59	72 *	58	37 *	16
17	27	23	20	30	51	66	53	66	63 *	70	52	37	17
18	28	24	19	33	48 *	71 *	50	73	72	60	50	38	18
19	30	24 *	18	41	50	64	50	78	78	64	56	35	19
20	28	28	18	43 *	53	57	49	73	74	63	56	32	20
21	25	31	17	40	58	52	54	83	77	68	55	29	21
22	23	28	17	37	60	65	51	88	80	63	51	25	22
23	22	25	18	33	70	70	55	88	82	63	52	25	23
24	24	24	17	38	69	73	64	72	89	64	49	24	24
25	26	23	18	46	72	73	63	67	93	56	53	30	25
26	31	21	18	47	69	72	69	62	96	54	51	29	26
27	37	21	18 *	51	72	73	62	56	96	53	52	26	27
28	39	20	20	51	72	76	63	60	82	60	49	26	28
29	34	19	18	50		66	54	66	60	66	49	27	29
30	32	20	17	50		65	51	69	58	63	48	24	30
31	30		17	42		72		73		68	47		31
MEAN	28.5	26.3	19.9	31.7	59.0	74.3	57.4	64.1	71.9	64.1	55.2	35.3	MEAN
MAX	39	35	33	51	95	91	71	88	96	73	72	47	MAX.
MIN.	22	19	17	16	32	52	44	48	58	53	47	24	MIN.
AC. FT.	1755	1567	1226	1950	3279	4567	3418	3939	4280	3941	3390	2100	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF FLOW
— E AND *

MEAN DISCHARGE
48.9

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY TIME
119	7.20	2	3 0100

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY TIME
14	1.86	1	2

TOTAL ACRE FEET
35410

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & W.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE NT.	DATE			FROM	TO		
36 55 25	120 41 19	NW 5 12S 12E	69. 89. ^a 119	9.19 9.25 7.20	11-24-65 2-13-73 2-03-75	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959		-2.00	LOCAL
Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panocho Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).											
a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	143	165	97	83	104	190	332	169 *	63	146	66	226	1
2	154	144	77	82 *	142	198	293	154	72	142	90	230	2
3	156 *	132	94	78	186	202	265	129	74 *	131	99	204 *	3
4	132	131	135	58	229	206	265	124	81	130	113 *	162	4
5	118	133	146 *	61	250 *	212	281	141	64	138	139	155	5
6	102	132	143	61	249	226	326	136	68	135	127	157	6
7	93	137 *	139	64	243	305	360	110	80	142 *	121	148	7
8	92	147	133	64	224	342	399 *	105 *	82	136	119	131	8
9	99	141	133	56	200	329	435	103	80	106	125	139	9
10	92	144	141	54	186	331 *	432	107	85	105	107	155	10
11	76	144	156	54	180	331	410	120	98	99	115	150	11
12	63	135	158	51	185	338	377	131	81	85	127	148	12
13	68	137	160	57	219	326	345	149	82	104	106	134	13
14	85	150	162	62	239	325	330	133	76	130	110	138	14
15	79	151	160	64	233	352	286	138	63	118	118	133	15
16	59	148	157	62	233	362	250	141	89	136	135	133	16
17	53	146	147	63	221	359	250	138	123	168	136	95	17
18	57	148	118	59	214	362	245	141	92	163	168	89	18
19	56	172	113	62	207	357	231	144	87	140	254	114	19
20	65	169	105	71	191	349	214	132	95	132	325	129	20
21	73	141	97	92	187	332	202	112	112	139	314	130	21
22	72	143	93	101	186	332	187	129	145	147	291	134	22
23	72	143	91	97	193	346	169	138	160	159	293	129	23
24	69	146	103	105	206	369	137	124	136	142	304	104	24
25	80	148	105	100	187	401	161	113	132	112	309	88	25
26	87	147	103	98	159 *	395	169	115	133	89	302	99	26
27	96	140	102	93	156	378	184	122	146	108	267	99	27
28	104	128	101	106	177	400	184	126	142	110	268	122	28
29	105	125	89	110		401	155	96	151	87	240	148	29
30	108	108	82	101		362	139	83	142	74	250	161	30
31	130		83	95		340		65		72	247		31
MEAN	91.6	143	120	76.3	200	324	267	125	101	123	187	139	MEAN
MAX.	156	172	162	110	250	401	435	169	160	168	325	230	MAX.
MIN.	53	108	77	51	104	190	137	65	63	72	66	88	MIN.
AC. FT.	5629	8479	7384	4689	11080	19950	15890	7672	6018	7587	11470	8299	AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION DF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	MO	DAY	TIME	TOTAL ACRE FEET
158	445	67.77	4	9	2300	49	64.18	1	12	0030	114200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R MOB & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CF5	GAGE HT	DATE				FRDM	TO	
37 14 52	120 51 04	SE10 8S 10E	537	70.35a 69.62	6-10-69 2-14-73	MAR 68-DATE			1968		0.00 USC GS

Station located at Lander Avenue bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River. Drainage area is 227 square miles.

a This maximum gage height of record was affected by backwater and does not represent the maximum discharge.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B52580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.3	0.4	0.7	14	2.3	9.4	5.6	2.1	1.0	0.7	0.3	1
2	0.3	0.3	0.4	0.7	116	2.1	8.3 *	2.3	1.0	0.6	0.3	2	2
3	0.3	0.3	5.0	0.7	47	2.1 *	8.1	5.1	1.8	1.0	0.6	0.3	3
4	0.4 *	0.3	9.8 *	0.7	47	2.1	8.1	5.4	1.8	1.0	0.6	0.3 *	4
5	0.3	0.3	2.4	0.7	33	4.3	15	5.1	1.7 *	0.9	0.5	0.3	5
6	0.3	0.3	0.7	3.4	19 *	8.1	13	4.8	1.7	0.9	0.6	0.2	6
7	0.3	0.3 *	0.7	5.2	12	32	12	4.6	1.5	0.9	0.6 *	0.2	7
8	0.4	0.3	0.7	26 *	13	41	13	4.5	1.5	0.8	0.6	0.2	8
9	0.4	0.3	0.7	21	80	23	18	4.3	1.6	0.8	0.5	0.3	9
10	0.4	0.3	0.6	9.9	75	18	20	4.0	1.5	0.8	0.5	0.3	10
11	0.4	0.3	0.6	3.2	25	15	16	3.9	1.4	0.8	0.5	0.3	11
12	0.5	0.3	0.6	2.6	18	12	13	3.7	1.5	0.8	0.5	0.2	12
13	0.5	0.3	0.6	2.4	16	12	11	3.7	1.5	0.8	0.5	0.3	13
14	0.5	0.3	0.6	2.1	22	14	10	3.5	1.3	0.8	0.5	0.3	14
15	0.5	0.3	0.7	1.4	17	14	12	3.4	1.4	0.8	0.5	0.3	15
16	0.5	0.3	0.6	1.3	14	22	13	3.5	1.4	0.8	0.4	0.3	16
17	0.5	0.3	0.6	1.2	9.0	20	12	3.6	1.4	0.8	0.4	0.3	17
18	0.5	0.3	0.6	1.2	7.4	17	10	3.2	1.3	0.8	0.5	0.2	18
19	0.6	0.3	0.6	1.1	6.8	14	9.1	3.2	1.3	0.8	0.6	0.2	19
20	0.6	0.3	0.6	1.0	8.0	13	8.5	3.3	1.4	0.8	0.5	0.2	20
21	0.3	0.6	0.6	1.0	6.6	16	8.3	3.2	1.3	0.8	0.5	0.2	21
22	0.1	0.5	0.7	5.4	6.6	59	7.8	3.2	1.2	0.7	0.4	0.2	22
23	0.2	0.4	0.7	4.3	6.3	26	7.5	2.9	1.3	0.7	0.4	0.2	23
24	0.2	0.4	0.6	0.8	6.1	21	11	3.0	1.4	0.7	0.4	0.1	24
25	0.2	0.4	0.6	0.8	5.7	148 *	18	2.7	1.3	0.7	0.4	0.2	25
26	0.2	0.3	0.6	0.8	5.6	42	11	2.6	1.2	0.7	0.4	0.2	26
27	0.2	0.3	0.7	0.7	17	25	8.3	2.7	1.2	0.7	0.4	0.1	27
28	0.6	0.3	0.9	0.7	15	18	7.3	2.6	1.1	0.7	0.4	0.1	28
29	0.4	0.3	0.7	0.7	15	15	6.5	2.5	1.1	0.7	0.4	0.1	29
30	0.3	0.4	0.7	0.7	13	11	6.0	2.1	1.1 *	0.7	0.4	0.2	30
31	0.4		0.7	0.7				2.3		0.7	0.4		31
MEAN	0.4	0.3	1.1	3.3	23.9	22.0	11.0	3.7	1.5	0.8	0.5	0.2	MEAN
MAX.	0.6	0.6	9.8	26	116	148	20	5.6	2.3	1.0	0.7	0.3	MAX.
MIN.	0.1	0.3	0.4	0.7	5.6	2.1	6.0	2.1	1.1	0.7	0.4	0.1	MIN.
AC. FT.	23	20	69	204	1326	1353	657	225	86	49	30	14	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
5.60	362	5.22	3	25	0600	0.1	1.15	10	1	1830	4056

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE			1965		LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville. Maximum discharge of record from rating curve extended above 758 cfs. There are no upstream impairments. Drainage area is 7.4 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.8	0.7	1.5	4.9	4.3	12	8.7	1.4	0.5	0.2	0.1 E	1
2	0.1	0.6	0.7	1.5	4.21	3.7	11	7.2 *	1.3	0.5	0.3	0.1 E	2
3	0.1	0.5	8.3	1.3	109	3.5 *	11	7.6	1.3	0.5	0.2	0.1 E	3
4	0.2 *	0.5	13 *	1.4	153	3.2	10	7.5	1.2	0.5	0.1	0.1 *	4
5	0.2	0.5	4.2	1.3	57	5.4	22	6.8	1.1 *	0.5	0.1	0.1	5
6	0.2	0.5	2.5	5.9	29 *	29	32	6.1	1.0	0.5	0.1	0.1	6
7	0.2	0.6 *	1.9	8.0	21	94	35	5.6	1.0	0.5	0.1 *	0.1	7
8	0.2	0.7	1.7	75 *	16	85	34	5.6	1.0	0.5	0.1 E	0.1	8
9	0.2	0.6	1.5	13	118	38	39	5.3	0.9	0.4	0.1 E	0.1	9
10	0.2	0.6	1.4	6.1	99	25	32	4.9	0.9	0.4	0.1 E	0.1	10
11	0.2	0.6	1.3	4.4	31	18	23	4.7	0.8	0.3	0.1 E	0.1	11
12	0.2	0.6	1.3	3.5	18	13	19	4.5	0.8	0.3	0.1 E	0.1	12
13	0.2	0.6	1.3	3.1	48	12	16	4.3	0.7	0.3	0.1 E	0.1	13
14	0.2	0.5	1.2	2.8	37	16	14	3.8	0.6	0.3	0.1 E	0.1	14
15	0.2	0.5	1.2	2.7	21	19	15	3.7	0.6	0.6	0.1 E	0.1	15
16	0.2	0.5	1.2	2.5	15	57	16	3.6	0.6	0.7	0.1 E	0.1	16
17	0.2	0.6	1.2	2.3	11	37	16	3.4	0.6	0.5	0.1 E	0.1	17
18	0.2	0.6	1.1	2.2	9.3	22	14	3.2	0.7	0.4	0.1 E	0.1	18
19	0.2	0.6	1.1	2.0	9.2	14	13	3.2	0.7	0.3	0.1 E	0.1	19
20	0.2	0.6	1.1	1.9	19	9.9	12	3.2	0.7	0.2	0.1 E	0.1	20
21	0.3	1.8	1.1	1.8	12	20	11	3.0	0.7	0.3	0.1 E	0.1	21
22	0.3	2.5	1.2	1.8	9.5	105	9.7	2.8	0.6	0.3	0.1 E	0.1	22
23	0.3	1.4	1.1	1.8	8.3	28	8.8	2.5	0.6	0.1	0.1 E	0.1	23
24	0.3	1.1	1.1	1.8	7.2	17	11	2.4	0.7	0.1	0.1 E	0.1	24
25	0.2	1.0	1.1	1.8	6.4	198 *	15	2.1	0.6	0.1	0.1 E	0.1	25
26	0.3	0.9	1.1	1.8	5.7	55	13	2.0	0.6	0.1	0.1 E	0.1	26
27	0.3	0.8	1.3	1.9	5.0	28	11	1.9	0.5	0.4	0.1 E	0.1	27
28	1.5	0.7	2.9	1.8	4.6	19	10	1.8	0.5	0.4	0.1 E	0.1	28
29	0.9	0.7	2.0	1.8		15		1.7	0.5	0.3	0.1 E	0.1	29
30	0.6	0.7	1.8	1.8		14	8.9	1.6	0.4 *	0.5	0.1 E	0.1	30
31	1.2		1.6	1.9		13		1.5		0.5	0.1 E		31
MEAN	0.3	0.8	2.1	5.2	48.2	32.9	16.8	4.1	0.8	0.4	0.1	0.1	MEAN
MAX.	1.5	2.5	13	75	421	198	39	8.7	1.4	0.7	0.3	0.1	MAX.
MIN.	0.0	0.5	0.7	1.3	4.6	3.2	8.8	1.5	0.4	0.1	0.1	0.1	MIN.
AC. FT.	1.9	46	127	322	2676	2025	999	252	47	23	7 E	6	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
9.05	925	5.32	2	2	0400	0.0	2.26	10	1	1545	6551

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 42 58	120 11 20	SE34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE		1958		0.00	LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	320	206	154	142	193	393	867	386	245	196	132	397	1
2	290	296	141	138 *	242	435	680 *	345	250	201	135	389	2
3	303 *	344	153 *	137	503	420	584	326	265	191 *	153	393 *	3
4	336	326	278	124	1640	396	555	298	243	187	156 *	396	4
5	313	306	449	115	2120	385	610	299 *	216	191	159	366	5
6	271	265	525	118	2270	420	667	306	166 *	198	169	336	6
7	236	213	474	118	2270	489	791	268	172	200	173	304	7
8	203	220 *	391	121	2100	629	893	237	174	209	178	270	8
9	191	215	334	122	1820	779	1040	216	170	191	190	265	9
10	187	202	279	184	1600	958 *	1230	221	171	171	193	311	10
11	185	206	255	277	1570	1200	1220	222	183	167	176	342	11
12	173	204	252	274	1870	1230	1050	227	207	147	195	371	12
13	180	190	252	237	2050	1130	880	251	257	147	201	380	13
14	174	202	255	210	1930	1030	788	244	272	166	187	398	14
15	168	218	250	193	1880	1190	633	243 *	236	175	204	421	15
16	151	219	240	177	1860	1260	532	248	267	179	214	443	16
17	124	215	242	169	1670	1250	499	272	322	226	226	403	17
18	101	212	227	159	1400	1360	538	277	291	261	245	358	18
19	97	219	205	152	1140	1300	599	296	192	244	286	348	19
20	95	230	192	166	931	1220	599	310	161	211	393	358	20
21	111	212	184	198	784	1070	561	287	166	206	499	360	21
22	118	202	172	220	684	921	538	270	182	216	513	364	22
23	112	202	163	221	588	1020	446	298	193	227	508	357	23
24	107	193	160	232	508	1440	373	302	196	215	511	350	24
25	112	197	161	235	462	1650	365	295	176	182	520	328	25
26	121	196	158	226	378	1570	439	304	181	159	531	318	26
27	134	194	156	220	346	1600	498	318	182	156	494	319	27
28	146	182	156	216	370	1750	493	296	192	164	430	308	28
29	157	177	151	223	1700	1700	489	280	198	151	403	355	29
30	167	170	146	204	1410	1410	447	242	201	143	377	371	30
31	172		146	189	1110	1110		224		142	380		31
MEAN	179	221	236	184	1256	1055	664	278	212	188	295	356	MEAN
MAX	336	344	525	277	2270	1750	1230	386	322	261	531	443	MAX
MIN.	95	170	141	115	193	385	365	216	161	142	132	265	MIN.
AC. FT.	11020	13160	14480	11340	69780	64890	39520	17070	12590	11540	18110	21180	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 421	DISCHARGE 2290 GAGE HT 62.63 MO 2 DAY 6 TIME 1530	DISCHARGE 84 GAGE HT 54.75 MO 10 DAY 19 TIME 1930	AGE REY 304700

LOCATION		MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944	1957	-3.73
								1957	1959	-3.77
								1959		0.00

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevenson, 6.7 miles upstream from the Merced River. Drainage area is approximately 8,090 square miles. Flow records were published in U. S. Geological Survey report "Surface Water Records of California" prior to 1972.

a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	105170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	125	533	613	432	369	462	1030 *	174 *	743	152	138	291	1
2	126 *	537	612	431	760	480	871	187	723	121	151	338	2
3	126	527	667 *	439 *	521 *	465 *	717	196	784	125 *	146	477 *	3
4	124	577 *	650	439	543	488	575	189	902	123	152	538	4
5	129	633	637	435	623	507	596	211	877	128	176	544	5
6	135	643	634	441	881	506	764	253	1150	136	166	511	6
7	146	646	632	430	958	523	936	231	2010	152	134	476	7
8	182	642	632	465	945	521	927	202	2040	163	140	474	8
9	761	641	633	439	1020	481	1140	180	2570 *	166	152	487	9
10	904	637	602	430	1180	500	994	175	3570	161	133	490	10
11	813	631	565	427	1700	483	877	174	4390	163	153	536	11
12	732	630	568	432	2020	471	873	339	4320	154	131	600	12
13	431	644	559	430	2190	566	880	529	4010	167	142	640	13
14	150	645	558	431	1970	518	836	716	4170	185	134	651	14
15	159	644	557	430	1530	477	796	760	4600	194	130 *	688	15
16	151	625	524	425	1520	508	761	756	4620	206	132	716	16
17	153	627	464	422	1270	474	747	747	3150	124	134	706	17
18	145	642	441	421	880	463	861	751	1720	128	152	686	18
19	141	635	430	428	695	459	824	753	923	125	162	689	19
20	144	632	425	423	675	456	803	754	750	124	178	687	20
21	142	641	429	423	660	470	751	779	825	129	169	701	21
22	133	646	427	422	664	639	546	832	880	127	156	732	22
23	135	647	422	419	682	469	415	884	840 *	121	152	763	23
24	135	647	421	401	674	606	366	851	819	119	174	790	24
25	190	647	425	408	687	1310	275	829	781	122	187	802	25
26	506	628	426	411	608	1670	221	836	766	118	171	791	26
27	529	632	430	418	487	1660	216	829	491	112	162	827	27
28	536	623	437	420	486	1670	211	834	243	116	168	910	28
29	516	639	435	416	1670	209	815	200	116	198	947	29	29
30	702	623	434	403	1690	195	765	253	113	225	968	30	30
31	550		435	350	1450		745		113	253		31	31
MEAN	318	625	520	424	973	757	654	557	1813	139	160	648	MEAN
MAX.	904	648	667	465	2190	1870	1140	684	4800	206	253	968	MAX.
MIN.	124	527	421	350	369	456	195	174	200	112	130	291	MIN.
AC. FT.	19540	37180	31980	26070	54050	46520	38910	34270	107900	8539	9860	38580	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
626	4940	12.35	6	16	0130	25	5.37	7	1	1615	453400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE			FROM	TO			
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE			1958		221.12	USGS
Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.												

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	214	610 E	659	505	457	529	1340	291 *	734	291	130 *	305	1
2	212 *	590 E	663 *	502	1350	519	980	283	730	217	138	324	2
3	221	600 E	723	505 *	1610	505 *	917	291	734	193 *	159	338 *	3
4	229	591 *	773	509	772	512	674	294	888 *	181	175	505	4
5	234	652	711	505	1200	532	663	294	852	181	175	522	5
6	234	678	689	505	872	549	689	313	800	177	200	532	6
7	234	678	681	509	1040 *	570	616	319	1470	172	193	509	7
8	239	685	681	505	1070	946	780	288	1960	170	170	505	8
9	282	674	678	536	1430	869	1190	288	2030	181	172	515	9
10	768	667	681	519	1470	602	1230	272	2900	186	186	509	10
11	930	659	630	499	1590	667	984	267	3750	181	170	515 *	11
12	800	656	616	496	2100	577	950	267	4130	188	172	580	12
13	757	652	619	496	2330	560	950	431	3760	184	166	627	13
14	404	656	609	489	2920	1040	950	612	3540	186	170	689	14
15	259	652	605	489	2070	670	909	726 *	3850	190	168	704	15
16	241	648	602	482	1740	603	860	757	4120	200 *	172	761	16
17	231	630	556	476	1710	670	840	757	3440	219	179	753	17
18	231	627	522	469	1230	567	872 *	773	2100 *	166	195	734	18
19	224	634 *	502	469	905	542	921	780	1180	159	231	734	19
20	226	634	489	473 *	812	536 *	868	773	788	155	249	757	20
21	229	641	489	466	773 *	536	856	788	719	157	246	757	21
22	226	648	489	469	757	995	765	828	776	159	226	800	22
23	221	659	482	466	742	761	549	860	800 *	166	207	836	23
24	224	667	479	469	726	602	502	917	776	144	224	860	24
25	221	667	479	463	704	934	450 E	860	738	142	221	901	25
26	272	659	479 *	469	719	1940	370 E	864	704	140	231	925	26
27	482 E	652	482	473	584	1890	340 E	864	652	140	212	892	27
28	523 E	663	479	539	1800	310 E	840	373	373	134	202	972	28
29	530 E	659	496	479	1780	310 E	824	310	310	114	212	1040	29
30	542 E	678	496	479	1800	290 E	796	288	134	231	1031	30	30
31	720 E	499	457	487	1780	1780	749	749	132	270			31
MEAN	366	649	582	487	1222	884	764	590	1664	172	195	681	MEAN
MAX.	930	685	73	536	2920	1940	1340	417	4130	291	270	1040	MAX.
MIN.	212	590 E	479	457	457	505	290	267	288	114	130	305	MIN.
AC. FT.	22530	8610	35810	29960	67880	54330	45470	36270	99000	10590	12000	40530	AC. FT.

E - ESTIMATED
NB - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 681	DISCHARGE 4211	GAGE HT 18.80	MO. DAY TIME 6 12 1900
	DISCHARGE 95.8	GAGE HT 10.57	MO. DAY TIME 7 29
			ACRE FEET 493000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950 1962	1962	96.24 86.23	USCGS USCGS
Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.											
a Reflects present datum.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B0525	MUSTANG CREEK NEAR BALlico

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.1	0.0	0.0	0.0	0.0	0.4 *	0.0 *	0.0	0.0	0.0 *	0.8	1
2	0.0 *	0.0	0.0 *	0.0	0.8	0.0	0.2	0.4	0.1	0.0	0.0	0.0	2
3	0.0	0.0	0.4	0.0 *	0.9 *	0.0 *	0.1	0.3	0.0	0.0 *	0.0	0.0 *	3
4	0.0	0.0 *	1.3	0.0	0.6	0.0	0.0	0.0	0.0 *	0.0	0.0	0.0	4
5	0.0	0.0	0.9	0.0	0.4	0.2	0.6	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.4	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.1	0.0	0.0 E	0.3	0.3	0.0	0.0	0.0	0.0	0.0	7
8	0.4	0.0	0.0	0.0	0.0 E	0.3	1.5	0.0	0.3	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0 E	0.1	2.3	0.0	0.0	0.1	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0 E	0.0	1.9	0.0	0.1	0.1	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0 E	0.0	1.5	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0 E	0.0	1.1	0.0	0.8	0.0	0.2	0.0	12
13	0.0	0.0	0.0	0.0	0.0 E	0.0	0.9	0.0	0.5	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0 E	2.8	0.8	0.0	0.1	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0 E	4.6	0.6	0.0 *	0.1	0.0	0.2 *	0.0	15
16	0.3	0.0	0.0	0.0	0.0 E	6.6	0.4	0.0	0.0	0.0	0.0	0.0 *	16
17	0.0 *	0.0	0.0	0.0	0.0 E	5.4	0.3	0.0	0.1	0.0	0.0	0.0	17
18	0.0	0.0	0.0 *	0.0	0.0 E	3.5	0.2 *	0.0	0.0 *	0.0	0.0	0.1	18
19	0.0	0.0 *	0.0	0.0	0.0 E	2.3	0.0	0.0	0.0	0.4	0.2	0.3	19
20	0.0	0.0	0.0	0.0 *	0.0 E	1.4 *	0.0	0.0	0.0	0.0	0.1	0.5	20
21	0.0	0.0	0.0	0.0	0.0 *	1.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.3	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	9.3	0.0	0.0	0.1	0.0	0.0	0.0	23
24	0.6	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.3	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.1	0.0	25
26	0.1	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.1	0.6	0.3	0.0	26
27	0.0	0.0	0.0	0.1	0.0	2.8	0.0	0.3	0.0	0.4	0.0	0.0	27
28	0.2	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.2	0.0	0.0	28
29	0.3	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.4	0.0	0.0	29
30	0.1	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.1	0.0 *	0.0	30
31			0.0	0.0	0.0	0.7		0.0		0.0	0.3		31
MEAN	0.1	0.0	0.1	0.0	0.1	2.3	0.5	0.0	0.1	0.1	0.0	0.1	MEAN
MAX.	0.6	0.1	1.3	0.1	0.9	9.3	2.3	0.4	0.8	0.6	0.3	0.8	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	5	0	6	0	5	141	27	2	5	5	3	3	AC. FT.

E - ESTIMATED
 NB - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
0.3	9.6	0	203
	GAUGE HT. 1.46	GAUGE HT. 10	
	MO. 3	DAY 23	
	TIME 0500	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAUGE HT.	DATE			FROM	TO	
37 29 58	120 39 48	NW16 5S 12E	281	5.63	1-21-69	NOV 65-DATE		1965		LOCAL
Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map). Drainage area is 11 square miles. Flood control structure installed one-half mile upstream in 1973.										
a Discharge measurements and partial gage height records are available in DWR files.										

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B08735	ORESTIMBA CREEK BELOW HIGHWAY 33

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23	0.6	0.1	0.0	1.0	22	16	17	24	40	17	7.5	1
2	28	0.2	1.1	0.0	0.1	34	13	16	31	46	11	13	2
3	19 *	0.1	1.5 *	0.0 *	0.0	0.6	8.7 *	17	12	25 *	11	27	3
4	8.0	0.0	1.1	0.0	0.0	1.0	6.0	16	13	29	7.5 *	6.5 *	4
5	14	0.0	0.2	1.0	0.0	46	49	16 *	10	16	7.8	4.4	5
6	10	0.8 *	0.0	0.7	0.0	69 *	123	16	11 *	33	9.8	3.0	6
7	15	0.5	0.0	0.5	0.0	45	103	19	10	17	14	4.9	7
8	19	0.2	0.0	0.4	0.0	220	78	19	9.8	17	14	2.7	8
9	5.6	0.1	0.0	1.3	0.0	237	55	18	26	16	13	1.5	9
10	0.7	0.1	0.0	1.8	41	83	26	15	11	16	17	14	10
11	0.2	0.1	0.0	1.9	40	46	8.6	21	13	19	16	36	11
12	0.1	0.1	0.0	1.7	3.8	24	15	32	24	19	16	28	12
13	0.0	0.0	0.0	1.2	6.9	87	11	9.4	11	32	15	9.0	13
14	0.0	0.0	0.0	1.7	132	140 *	16	7.2	11	53	14	44	14
15	0.0	0.0	0.0	1.1	25	78	48	9.7	11	30	14	55	15
16	0.0	0.0	0.0	0.7	3.4	68	30	12	9.8	67	12	22	16
17	0.0	0.0	0.0	0.1	0.0	110	49	25	17	17	15	42	17
18	0.0	0.0	0.0	1.7	0.0	69	22	27	43	26	41	19	18
19	0.0	0.0	0.0	1.9	0.0	82	13	50 *	31	74	70	0.9	19
20	0.0	0.0	0.0	1.1	0.0	52	11	5.6	26	43	69	1.9	20
21	0.0	0.0	0.0	1.6	0.0	38	14	42	19	74	57	5.4	21
22	0.4	0.0	0.0	1.4	0.0	143	17	65	32	37	46	3.3	22
23	0.9	0.0	0.0	2.2	0.0	147	19	30	37	18	20	25	23
24	0.6	0.0	0.0	2.2	0.2	113	22	17	16	17	39	34	24
25	0.3	0.1	0.0	1.4	0.2	57	17	16	26	17	24	16	25
26	1.4	0.1	0.0	0.5	0.1	40 *	20	19	58	17	2.7	15	26
27	0.5	0.4	0.0	0.3	0.4	25	18	22 *	40	26	2.9	15	27
28	0.2	0.8	0.0	1.3	7.9	117	33	16	35	19	6.2	24	28
29	1.1	0.6	0.0	0.9	0.0	90	21	16	54	18	14	52	29
30	0.6	0.3	0.0	1.1	0.0	96	17	6.6	32	32	37	13	30
31	1.3	0.0	0.0	1.4	0.0	34	17	4.9	18	18	49	18	31
MEAN	4.8	0.2	0.1	1.1	9.4	77.9	30.0	21.1	23.5	29.9	22.7	16.2	MEAN
MAX.	28	0.8	1.5	2.2	132	237	123	85	58	74	70	55	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.6	6.0	4.9	9.8	16	2.7	0.9	MIN.
AC. FT.	297	10	8	66	520	4787	1784	1295	1396	1841	1396	1081	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM				MINIMUM				TOTAL	
20	437	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
		5.31	3	8	2130	0.0	0.85	10	14	2130	14480

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE						
37 22 42	121 03 30	SE26 6S 8E	2650E	12.08	2-1-63	1959 to date					
Station located 1.0 mile south of intersection of Crows Landing Road and Highway 33 and is 400 feet east of highway. During the summer months the flows are irrigation drainage. Records are available for a station located 0.6 mile upstream operated by USBR 1948 to 1959. Also, records are available for a station located 4.5 miles downstream operated by the Department of Water Resources 1957 to 1972. Maximum discharge of record on 2-1-63 estimated as 2,650 cfs at gage height 12.08 by extending the rating curve above 1,654 cfs. Drainage area is 196 square miles.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	960	1200	1070	864	1150	1270	3270	1270	1450	1080	773	1110	1
2	991	1260	1060	850	1180	1280	2850	1180	1540	1080	746	1130	2
3	1010 *	1290	1110 *	839 *	1390	1240	2410 *	1130	1500 *	1040 *	770	1160	3
4	1040	1310	1230	839	2200	1190	2170	1170	1480	1010	796 *	1160 *	4
5	1030	1280	1410	833	2810	1220	2060	1120 *	1490	1020	794	1210	5
6	947	1260 *	1500	833	3380	1350	2010	1070	1450	1020	784	1220	6
7	965	1270	1520	841	3690 *	1500	2070	1110	1360	988	800	1220	7
8	968	1290	1470	844	3820	1710	2220	1050	1580	936	811	1180	8
9	921	1300	1400	852	3750	2030	2290	1010	1950	936	796	1200	9
10	888	1300	1330	869	3500	2170	2570	961	2130	910	830	1210	10
11	988	1290	1290	938	3440	2080	2800	1010	2450	867	860	1290	11
12	1140	1290	1260	977	3320	2150	2840	1050	3000	837	832	1360	12
13	1190	1260	1220	971	3690	2160	2660	1010	3430	831	793	1380	13
14	1190	1240	1220	957	4170	2160	2510	1030	3650	865	796	1460	14
15	1120	1260	1210	958	4420	2220	2360	1130	3660	889	817	1570	15
16	987	1250	1190	956	4340	2320	2080	1260	3750	940	823	1560	16
17	919	1250	1160	957	4000	2300	1930 *	1360	3910 *	951	824	1570	17
18	863	1250	1130	956	3620	2250	1830	1430	3940	967	1030	1550	18
19	843	1240	1070	951	3120	2190	1880	1500 *	3420	957	1100	1450	19
20	827	1230	1020	991	2540	2140	2000	1500	2550	937	1080	1440	20
21	819	1220	979	1060	2130 *	2080 *	2020	1520	1930	912	1200	1480	21
22	850	1190	948	1120	1870	2030	1910	1580	1760	880	1270	1560	22
23	860	1170	926	1150	1730	2100	1850	1570	1710	849	1240	1580	23
24	846	1160	912	1180	1610	2330	1650	1550	1600	821	1220	1580	24
25	833	1150	901	1190	1530	2480	1540	1570	1580	782	1220	1640	25
26	817	1140	890	1180	1450	2730	1510	1570	1510	751	1180	1620	26
27	835	1120	887	1170	1380	3070	1500	1630	1420	731	1130	1590	27
28	947	1110	889	1150	1340	3510	1500	1540	1350	744	1090	1660	28
29	1050	1100	892	1150	1370	3720	1390	1490	1280	775	1050	1760	29
30	1100	1080	879	1160	1310	3810	1310	1470	1170	787	1060	1850	30
31	1130		870	1150	1360	3640		1430		778	1120		31
MEAN	964	1225	1124	992	2735	2209	2100	1300	2167	899	959	1425	MEAN
MAX.	1190	1310	1520	1190	4420	3810	3270	1630	3940	1080	1270	1850	MAX.
MIN.	817	1080	870	833	1150	1190	1310	961	1170	731	746	1110	MIN.
AC. FT.	59290	72910	69110	60970	151900	135800	125000	79920	129000	55280	58980	84790	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE
1496

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
4450	40.52	2	15	1615

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
712	32.77	7	27	1615

TOTAL ACRE FEET
1083000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CF5	GAGE HT.	DATE						
37 29 40	121 04 50	SW15 5S 8E		54.0	6-13-38			APR 38-SEP 66	1938	1959	0.00
				50.47a	6-13-38				1959		0.00
			9,600b	46.12	2-16-73				1959		3.53
Station located on the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.											
a Reflects present datum.											
b Maximum discharge since station was rated in October 1969.											

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1600 *	2910 *	1020	2130	3470	972	630	317	314	80	80	139	1
2	1070	3510	1180 *	1740	1790	1020	551	304 *	131	77	118	137	2
3	1050	3300	1560	3890	1420	1290	342	325	109	76 *	120	228 *	3
4	862	3170	1280	3340	2700	1960	328	331	107 *	78	103	517	4
5	536	1300	1490	2120	2520	1960	476	329	249	79	247	939	5
6	482	781	1550	1800	2410	2280 *	417	331	286	87	226	988	6
7	451	783	1530	3710	2360 *	2160	486	333	163	73	115	1060	7
8	462	800	1540	3310 *	1840	1740	641 *	388	126	85	101	757	8
9	422	816	1500	3530	1260	1030	581	338	119	106	158	704	9
10	390	848	1550	3700	1260	1440	489	337	282	116	137	912	10
11	544	865	1560	3170	2170	2300	371	332	355	196	112	697	11
12	495	864	1610	1940	2090	916	333	329	179	156	198	1050	12
13	307	889	1580	1710	2430	704	330	389	132	92	142	995	13
14	111	910	1590	3840	2390	942	329	522	261	80	116	685	14
15	279	993	1600	3970	1920	742	330	336 *	134	111	110	646	15
16	1500	1050	1500	4100	1170	761	326	331	116	92	114	633	16
17	1490	1090	1070	4200	674	748	327	330	105	82	119	628	17
18	1480	1110	1010	3690	1230	913	330 *	331	106 *	112	197	731	18
19	1360	1110 *	1020	2380	2290	1830	330	324	107	89	277	1020	19
20	1600	1110	1250	1990 *	2450	2210 *	333	328	106	81	160	677	20
21	1670	1120	1470	4390	2510	2110	324	319	102	81	119	627	21
22	2540 *	1120	942	4290	2070	1920	325	319	103	111	160	637	22
23	2670	1110	939	4390	1150	1010	324	315	105	480	134	973	23
24	2660	1120	1660	4160	1310	1240	324	379	97	307	129	1070	24
25	2650	1120	2110	3280	2070	1820	323	317	103	250	127	1300	25
26	2530	1100	1710 *	1920	1590	825	329	309	101	272	181	1340	26
27	2380	1000	3580	1950	825	702	335	304	97	130	140	1120	27
28	2490	947	3230	4240	709	664	323	440	97	103	133	753	28
29	2670	859	2200	4300	631	631	325	542	94	114	132	616	29
30	2460	1000	1740	4320	635	635	320	588	87	97	132	708	30
31	2360		3440	4360	639	639		508		89	139		31
MEAN	1406	1290	1646	3286	1860	1294	381	362	149	128	144	776	MEAN
MAX.	2670	3510	3580	4390	3470	2300	641	588	355	480	277	1340	MAX.
MIN.	111	781	939	1710	674	631	320	304	87	73	80	137	MIN.
AC. FT.	86420	76770	101200	202000	103300	79570	22680	22260	8870	7898	8878	46190	AC. FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 1058	DISCHARGE 7070	GAGE HT. 74.92	MO. DAY TIME 2 1 0330
		DISCHARGE 70	GAGE HT. 69.61
		MO. DAY TIME 7 7 1900	
			ACRE FEET 766000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE						
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 35 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE			1932	-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge. Drainage area is 1,655 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	106	134	144	14	17	24	69 *	82	77	147 *	79	88	1
2	105	123	176 *	14	16	26	59	83	81	89	84	85	2
3	113	112	204	16 *	407	43	66	100	82	93	79	83 *	3
4	104	107	188	16	343 *	71	79	106	81 *	83	81 *	85	4
5	106	105	279	14	342	74	70	103	75	80	80	107	5
6	107	107	247	17	179	74	206	98	76	85	72	98	6
7	106	109 *	231	20 *	93	63	298	105	84	146	68	92	7
8	103 *	152	224	18	83	112	228	86	73	138	75	93	8
9	99	227	218	17	122	315	200	87	77	61	76	94	9
10	103	226	218	22	704	186 *	161	79	77	74	75	94	10
11	111	224	240	36	282	155	122	94	85	80	76	90	11
12	106	223	242	26	110	132	109	87	86	85	87	96	12
13	112	223	236	21	119	100	102	82	91	90	78	89	13
14	105	201	232	18	827 *	629 *	94	81	77	77	72	71	14
15	95	148	227	20	279	450	85	65	70	77	70	81	15
16	127	149	222	18	98	213	80	80	103	78	81	89	16
17	110	142	220	15	66	652	89	78	170	75	77	89	17
18	103	156	218	14	55	197	100	69	78	80	89	84	18
19	100	194	215	14	48	125	95	65	86	82	136	95	19
20	94	52	214	14	43	107	98	77	96	88	122	94	20
21	103	29	102	15 *	41 *	102 *	106 *	79	96	91	111	105	21
22	282	25	30	15	47	393	104	75	101	118	106	102	22
23	390	24	25	15	42	797	101	81	143	106	91	99	23
24	397	24	32	14	38	279	96	82	160	79	91	104	24
25	390	24	20	15	35	240	92	81	84	75	102	94	25
26	223	23	17	14	34	530 *	109	77	88	71	105	91	26
27	178	23	17	13	32	246	114	68	91	82	106	102	27
28	171	24	18	14	27	139	95	68	86	82	83	96	28
29	156	24	16	14		104	103	72	79	82	82	90	29
30	119	28	15	13		89	90	75	126	82	81	90	30
31	121		15	13		79		74		77	87		31
MEAN	150	112	152	16.7	162	218	114	82.3	92.7	89.5	87.2	92.3	MEAN
MAX.	397	227	279	36	827	797	298	106	170	147	136	107	MAX.
MIN.	94	23	15	13	16	24	59	65	70	71	68	71	MIN.
AC. FT.	9213	6668	9326	1029	8983	13380	6783	5060	5516	5500	5359	5494	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	GAUGE HT.	MO	DAY	TIME	DISCHARGE	GAUGE HT.	MO	DAY	TIME	TOTAL ACRE FEET
114	1350	76.05	3	23	0030	12	67.54	1	31	1400	82310

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R W D B & M	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY		PERIOD		ZERO ON GAUGE	REF DATUM
			CFS	GAUGE HT.	DATE				FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE			1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream impairments.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	804105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2010	2800	1610	2520	3070	1050	1170	558	659	339	305	321	1
2	1850	3090	1690	1770	2520	1230	1010	558	564	292 *	295	318	2
3	1590	3310	1900 *	1980 *	1690	1150	832 *	567	427 *	287	315	360 *	3
4	1550 *	3240	2010	2800	2210 *	1490	672	586	360	292	334 *	360 *	4
5	1400	3010	1770	2650	2460	1810 *	662	595 *	344	308	321 *	582	5
6													6
7	1240	2100 *	1980	1890	2550	1990	769	582	410	342	413	818	7
8	1200	1680	2070	2100	2450	2170	874	592	461	336	410	943	8
9	1170	1620	2070	2070	2420	2230	943	573	401	366	313	957	9
10	1140	1680	2070	2800	2110	2060	1150	598	366	323	308	846	10
11	1010	1690	2050	2890	2000	1770	1110	561	339	295	339	839	11
12	965	1700	2080	2940	2220	2000	939	586	467	313	344	892	12
13	1040	1690	2100	2640	2290	2300	776	579	561	382	313	881	13
14	996	1700	2110	1830	2330	1650	709	567	491	377	352	1000	14
15	835	1700	2110	2060	2780	1640	669	620	506	334	342	976	15
16	630	1660	2120	2840	3070	2150	627	672	643	270	297	864	16
17													17
18	817	1710	2130	2980	2470	1660	598 *	589 *	636	313	295	857	18
19	1650	1740	1890	3020	1860	1840	582	570	709	303	318	769	19
20	1740	1750	1550	3070	1450	1700	601	582	702	297 *	344	780	20
21	1730	1790	1480	2800	1710	1660 *	601	561	630	310	617	860	21
22	1710	1740 *	1460	1910	2100 *	2120	620	545	430	300	699	954	22
23													23
24	1820	1660	1610	2170 *	2130	2290	614	582	344	300	503	853	24
25	2010	1650	1490	2930	2140	2330	579	542	344	270	374	804	25
26	2710	1620	1200	3030	1830	2670	570	542	318	313	368	835	26
27	3070	1620	1260	3060	1320	2000	576	554	363	567	344	994	27
28	3130	1620	1700	2970	1520	1960	620	589	313	536	328	1090	28
29													29
30	3110	1620	1630	2520	1830	2260	579	554	285	476	323	1210	30
31	2970	1610	1840 *	1700	1530	1840	624	533	297	479	350	1250	31
MEAN	1830	1910	1860	2570	2120	1820	727	584	442	345	359	836	MEAN
MAX	3130	3310	2560	3070	3070	2670	1170	725	709	567	699	1250	MAX
MIN.	630	1450	1200	1700	1160	1050	567	521	285	270	295	318	MIN.
AC. FT.	112500	113600	114600	157900	117500	111900	43260	35900	26280	21210	22090	49730	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL	ACRE FEET
1280	3350	31.04	11	3	2115	263	23.25	7	15					926500	

LOCATION				MAXIMUM DISCHARGE				PERIOD OF RECORD				DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R N D B & M		OF RECORD				DISCHARGE	GAGE HEIGHT ONLY			PERIOD			
				CFS	GAGE HT	DATE						FROM	TO	ZERO ON GAGE	REF DATUM
37 36 12	121 07 50	NW 7 4S 8E		46.65	12-	9-50	1930-DATE					1960	1959	0.00	USED
				37900b	43.15a	12- 9-50						1960		0.00	USCGS
					42.86	1-27-69								3.50	USED
Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.															
a Reflects present datum.															
b Maximum discharge since Department of Water Resources began operation of station in April 1966.															

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	807040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3160 *	4180	2810	3150	4320	2690	4670	1800 *	2220	1490	1020	1640	1
2	3130	4410	2890	2880	4210	2730	4230	1800 *	1860	1350 *	983	1600	2
3	2890	4780	3060 *	2520	3450	2810	3570	1800 *	1750 *	1320	1000	1640	3
4	2840	4890 *	3390	3400	3850 *	272	3120 *	1800 *	1510	1320	1060	1630	4
5	2750	4770	3310	3500	030	3160 *	2920	1870	2130 *	1340	1010 *	1630	5
6	2550	4000	3510	3070	7550	3450	2920	1720	1690	1390	1010	2060	6
7	2470	3330	3700	2660	6000	3090	3060	1730	1620	1370	1060	2210	7
8	2460	3190	3690	3600 *	6200	4230	3200	1660	1770	1310	1080	2240	8
9	2400	3220	3630	3640	6060	4480	3570	1660	2140	1330	1090	2220	9
10	2250	3250	3520	3720	5600	4310	3710	1630	2180	1200	1110	2190	10
11	2200	3230	3450	3630	5630 *	4260	3740	1690	2540 *	1160	1180	2320 *	11
12	2430	3230	3440	2740	5480	4790	3650	1650	2870	1200	1160	2380	12
13	2540	3250	3410	3140	5880	4420	3500	1530	2960	1210	1130	2510	13
14	2490	3260	3320	2760	6520	4220	3320	1590	3200	1180	1110	2520	14
15	2280	3220	3300	3590	7430	4720	3170	1770	3410	1140	1100	2560	15
16	2180	3210	3340	3800	7500	4700	2970 *	1860 *	3720	1100	1120	2600	16
17	2690	3210	3160	3900	6270	4490	2690	1950	3790 *	1240	1240	2560	17
18	2820	3200	2780	3930	5410	4500	2640	2120	4040	1240 *	1520	2570	18
19	2800	3200	2620	3780	5180	4460 *	2610	2150	3950	1300	1850	2560 *	19
20	2720	3180 *	2520	3190	5230	4810	2690	2260	3480	1320	1900	2600	20
21	2800	3060	2520	2800 *	4840	5000	2740	2280	2590	1280	1830	2670	21
22	2870	3040	2490	3840	4570	6000	2620	2320	2310	1160	1800	2680	22
23	3190	2970	2190	4060	4260	5280	2570	2260	2230	1070	1840	2700	23
24	3890	2940	2100	4170	3640	5100	2460	2230	2150 *	1140	1810	2790	24
25	4020	2930	2360	4160	3360	4330	2310	2260	2000	1250	1720	2870	25
26	4050	2920	2470	3910	3770 *	5270	2260	2240	1950	1110	1560	3020	26
27	3960	2880	2300 *	3230	3490	5250	2290	2340 *	1650	1130	1530	3090	27
28	3980	2830	2990	2950	2950	5020	2280	2250	1730	1050	1510	3090	28
29	4060	2780	3080	3900	5020	5020	2160	2190	1660	1030	1470	3010	29
30	4220	2710	2790	4150	4990	5120	2010	2170	1590	1030	1480	2960	30
31	4240		2480	4260		5120		2200		1070	1600		31
MEAN	3020	3380	2990	3460	5070	4370	2990	1970	2430	1220	1350	2450	MEAN
MAX.	4240	4790	3700	4260	7430	5280	4670	2320	4040	1490	1900	3090	MAX.
MIN.	2180	2710	2100	2520	2950	2690	2010	1530	1510	1030	983	1600	MIN.
AC. FT.	185500	200900	184000	212700	281300	268900	177800	121400	144700	75330	83070	145700	AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN
DISCHARGE
2870

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
7470	22.40	2	15	1035

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
931	14.28	8	6	

TOTAL
ACRE FEET
2081000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	FROM TO	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE							
37 38 28	121 13 37	SW29 3S 7E	45,550	36.87 38.31	2-28-69 1-27-69	JAN 50-MAR 52 OCT 65-DATE	SEP 43-DEC 49 APR 52-SEP 65	1943	1959	0.00	USED	
								1959		0.00	USCGS	
								1959		3.41	USED	

Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.

a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	35	74	1210	112	44	925	1400 *	171	6330	39 *	50 *	33	1
2	39	69	1210 *	176	59	921	1100	860	7190 *	222	44	33	2
3	37	63	1250	15 *	97	640	887	2140	6370	277	41	31 *	3
4	37	67	1240	107	839 *	89	779	2530	4730 *	194	43	27	4
5	33	96	1170	112	1970	65	769	2650	6210 *	247	41	30	5
6	34	167	1160	121	1950	64	876	2760 *	5870	192	45	29	6
7	37	161 *	1150	111	1850	65	925	2750	5990	455	40	26	7
8	40 *	181	1140	132	1710	206	1080	2690	5970	722	33	28	8
9	37	194	1140	127	1980	868	1130	2330	5650	382	32	30	9
10	35	192	1130	121	2020	858 *	1130	1820	4500	106	35	29	10
11	41	190	1130	115	1950	1290	1150	1810	2640 *	50	39	27	11
12	44	168	1120	116	1920	1760	1150	2070	1740	53	33	30	12
13	41	182	1120	112	2140	1850	1140	2430	3260	50	30	28	13
14	36	100	1110	113	1990	1890	940	2230	3890	46	32	27	14
15	36	185	1100	110	1910	1780	706	2300	3820	51	32	26	15
16	32	179	1100	105	1900	2050	544	2290 *	3810 *	59	30	28	16
17	33	174	1100	104	1390	1790	472	2320	3620	60	28	26	17
18	33	171	1090	106	1880	1770	425	2350	3240	54	39	23	18
19	32	156	1080	106	1880	1750	368	2430	1630	54	42	24	19
20	32	157	919	100	1850	1750	345	2500	447	48	33	30	20
21	37	150	429	107 *	1670 *	1760	348	2490	140	47	29	34	21
22	36	212	370	101	1660	2160	399	2440	69	48	28	32	22
23	315	602	363	104	1660	1810	391	2400	54	47	23	32	23
24	424	710	281	102	1860	1840	396	2340	48 *	39	22	33	24
25	575	870	63	102	1640	1910	398	2400	46	37	23	33	25
26	535	1200	67	99	1060	1810	393	2450	45	41	24	29	26
27	538	1210	69	103	933	1780	391	2530	48	44	35	29	27
28	519	1210	71	101	928	1770	392	2570	51	48	38	29	28
29	423	1210	98	102	1770	1770	330	2600	45	47	38	29	29
30	85	1210	116	79	1630	1630	314	2710	40	43	36	34	30
31	80		117	50	1440	1440		4750		49	32		31
MEAN	138	388	798	106	1567	1357	702	2359	2923	127	34.5	29.3	MEAN
MAX.	575	1210	1250	132	2140	2160	1400	4750	7190	722	50	34	MAX.
MIN.	32	63	67	50	44	64	314	171	40	37	22	23	MIN.
AC FT.	8515	23070	49060	6545	87020	83430	41790	145100	173900	7837	2122	1743	AC FT.

E - ESTIMATED
 NR - NO RECORD
 + - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 870	DISCHARGE 7550	GAGE HT 13.88	ACRE FEET 630100
	MO. DAY TIME 6 2 1615	DISCHARGE 20	GAGE HT 1.52
		MO. DAY TIME 8 23 1700	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39				117.21	USC&GS
Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
197°	B0311°	STANISLAUS RIVER AT KOETITE RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	505	420	1090	271	180	1140	1610	706	3870	454 *	287 *	434	1
2	471	393	1110	261	173	1120	1450	614	4 30 *	418	380	343	2
3	439	352	1220	255	169	1000	1300	902	5740	424	315	299	3
4	425	329	1340	249	181	913	1100 *	1930	6290	547	340	314 *	4
5	455	316	1300	246	438	761	1380	2380	5860	497	351	264	5
6	406	313 *	1260	240	1310	664 *	1000	2550 *	2700	607	306	296	6
7	386	336	1310	243	1590	614	1120	2750	6030	574	320	361	7
8	397 *	361	1310	234	1650	651	1310	2810	6110	623	352	440	8
9	375	343	1310	234	1610	627	1 30	2620	6150 *	609	380	426	9
10	396	293	1300	242	1760	919	1000	2560	5990	684	369	346	10
11	409	279	1300	233	1850 *	1010	1530	2180	5430	489	375	339	11
12	444	273	1300	228	1820	1260	1480	2130	4030	434	339	332	12
13	501	269	1300	224	1840	1620	1400	2240	2650	459	354	285	13
14	542	267	1310	221	2090	1940	1420	2550	3320	405	299	270	14
15	550	291	1300	218	2000	2020	1220	2450	3960	379	319	329	15
16	433	332	1300	218	1670	1940	10 0	2460 *	4100 *	367	323	352	16
17	395	412	1300	212	1640	2110	980	2450	4140	351 *	356	304	17
18	347	420	1300	210	1630	1950	909	2510	4060	398	412	297	18
19	307	431	1290	207	1620	1900	616	2520	3740	376	468	336	19
20	299	406	1290	206	1620	1890	001	2620	2420	412	513	393	20
21	312	311	1180	204	1620	1 99	830	2790	1390	427	488	407	21
22	309	386	756	203	1810	1970	600	2730	1080	385	465	430	22
23	297	280	591	202	1810	2210	700	2620	903	372	393	385	23
24	301	424	536	199	1610	2010	24	2580	625	355	421	352	24
25	424	618	511	198	1870	1980	40	2630	677	335	357	361	25
26	578	697	442	196	1850	2030	401	2610	561	326	284	310	26
27	561	926	363	195	1360	1930	914	2640	549	370	353	345	27
28	529	1010	326	192	1180	1850	864	2710	543	396	379	314	28
29	522	1050	307	194		1850	617	2710	545	385	356	354	29
30	498	1070	295	191		2020	779	2770	523	386	325	356	30
31	434		282	187		1910		2890		386	377		31
MEAN	427	452	1004	220	1478	1542	1109	2382	3395	446	370	347	MEAN
MAX.	578	1070	1340	271	2090	2210	1610	2890	6290	609	513	440	MAX.
MIN.	297	267	282	187	169	614	779	614	523	326	264	270	MIN.
AC. FT.	26280	26890	61750	13520	82060	94610	65970	146400	202000	27440	22770	20660	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRES FEET
1092	6370	44.93	6	4	1015	167	27.08	2	3	1606

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 41 57	121 10 08	SW 2 3S 7E		50.5a	12-24-55	OCT 62-DATE	MAR 50-SEP 62		1950	1962	-0.63 USC&GS
									1963	1969	0.37 USC&GS
									1970		0.00 USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.

a Water bypasses station by overflowing flood plain on right bank and discharge is not computed.
 Overflowing occurs at approximately 45 feet gage height.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3760	4710	3860	3580	4290	3830	6420	2510	4980	2030	1430	1930	1
2	3830	4830	4000	3480	4250	3750	5800	2360	5860	1930	1400	1790 *	2
3	3560	5140	4200	2850	3540 *	3850	5060	2330	6550	1860	1430	1770	3
4	3400	5240	4650	3680	3610	3580	4450	3090	7350	1930	1450	1710	4
5	3330	5180	4640 *	3890	4790	3750	4100	3660	7570	1970	1420	1890	5
6	3120	4580	4740	3550	6080	3930	3990	3690	7070	2040	1350	2130	6
7	2990	3860	5010	2920	6910	4270	4140	3910	7350	2030	1400	2380	7
8	2970	3680	5070	3770	7250	4640	4320	4060	7560	1910	1440	2500	8
9	2920 *	3670	5030	3880	7200	4860	4880	4000	7880	2020	1470	2460	9
10	2770	3660	4940	3940	6870	5000	5110	3960	8100	1980	1490	2340	10
11	2600	3610	4890	4050	6950	5060	5100	3670	8000	1740	1550	2470	11
12	2860	3600 *	4860	4060	7140	5610	4960	3570	7510	1680	1520	2570	12
13	3040	3610	4840	3590	7110	5800	4740	3440	6030	1680	1440	2770	13
14	3040	3640	4830	2950	7800	5730	4560	3690	6120	1630	1400	2800	14
15	2940	3590	4840	3740	8820	6350	4240	3840	7160	1560	1350	2800	15
16	2690	3620	4840	4020	8670	6300	3880	3970	7740	1550	1340	2910	16
17	3020	3680	4730	4120	7950	6230	3470	4070	7940	1650	1480	2810	17
18	3220	3670	4350	4160	7120	6380	3340	4240	8040	1670	1850	2760	18
19	3140	3670	4130	4080	6710	6070	3220	4340	7810	1760	2270	2790	19
20	3060	3660	4010	3610	6830	6330	3240	4350	6600	1780	2420	2940	20
21	3080	3480	3940	2990	6610	6590	3310	4550	4380	1760	2300	2980	21
22	3140	3400	3690	3940	6300	6620	3190	4650	3480	1620	2230	2980	22
23	3560	3340	3130	4230	6010	7070	3070	4550	3130	1460	2220	2950	23
24	4120	3340	2870	4350	5410	7040	2970	4470	2860	1470	2200	3010	24
25	4380	3500	3080	4340	5030	6530	2890	4530	2700	1630	2090	3060	25
26	4560	3600	3250	4140	5460	6930	2900	4580	2440	1490	1760	3210	26
27	4570	3740	2890	3550	4990	7010	2950	4540	2330	1550	1710	3250	27
28	4530	3830	3560	3000	4240	6740	2970	4590	2290	1500	1710	3250	28
29	4620	3830	3740	3880		6630	2810	4580	2260	1440	1640	3210	29
30	4770	3760	3470	4150		6820	2630	4630	2240	1460	1620	3150	30
31	4820		2930	4270		6920		4700		1490	1740		31
MEAN	3497	3891	4162	3766	6212	5685	3957	3972	5708	1718	1680	2652	MEAN
MAX.	4820	5240	5070	4350	8820	7070	6420	4700	8100	2040	2420	3250	MAX.
MIN.	2600	3340	2870	2850	3610	3580	2630	2330	2240	1440	1340	1710	MIN.
AC. FT.	215000	231500	255900	231600	345000	349500	235500	244200	339600	105700	103300	157800	AC. FT.

E -- ESTIMATED
 NR -- NO RECORD
 * -- DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # -- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL
3898	9080	18,60	2	15	1845	1340	10.24	8	16	1815	2815000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12-9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS
Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 2.4 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.											

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B71408	MUSITT CREEK #2 NEAR SHAYER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	.030	.301	.081	.217	.392 E	1.31	1.8*	2.85	1.31	.435	.301	.100	1
2	.100	.217	.081	.236	1.05	1.14	1.85	3.42	1.31	.483	.217	.081	2
3	.081	.178	2.14	.236	.347	.966	1.85	3.86	1.31	.463	.217	.061	3
4	.100	.158	3.86	.236	.301	.968	1.71	3.42	1.23	.438	.236 *	.061	4
5	.120	.139	.574	.236	.342	2.42	1.40	2.5 *	1.14	.392	.217	.045 *	5
6	.100	.120	.301 *	.665	.392	3.64	1.48	2.71	1.05	.392	.236	.045	6
7	.045 *	.120	.236	.710	.528	3.86 *	1.48	2.99	1.05	.347 *	.217	.061	7
8	.120	.120 *	.217	1.23	1.05	4.94	1.48	3.66	1.05	.301	.178	.061	8
9	.081	.120	.198	.665	3.86	2.28	1.40	4.29	.968 *	.301	.178	.081	9
10	.100	.120	.217	.528	2.14	1.85	1.40	4.73	.968	.301	.198	.041	10
11	.100	.120	.198	.438	1.71	1.48	1.7	4.73	.968	.301	.178	.061	11
12	.045	.120	.198	.392	1.31	1.40	1.40	5.16	.86	.301	.178	.081	12
13	.045	.100	.198	.392	3.21	1.31	1.71	5.47	.78	.301	.178	.081	13
14	.045	.100	.178	.347	2.00	1.23 E	2.14 *	5.47	.78	.217	.178	.100	14
15	.045	.100	.178	.347	1.31 E	1.31 E	1.71	4.94	.968	.256	.178	.100	15
16	.015	.100	.198	.347	1.14 E	1.31 E	1.48	4.51	.796	.392	.178	.100	16
17	.030	.178	.198	.347	.968 E	1.14 E	1.40	4.08	.796	.438	.178	.081	17
18	.061	.217	.198	.347	.710 #	1.23 E	1.40	3.86	.882	.392	.198	.061	18
19	.081	.217	.198	.347	.665	1.40 E	1.40	3.64 *	.968	.347	.217	.061	19
20	.081	.217	.198	.347	.710	1.85 E	1.85	3.21	.968 *	.347	.217	.045	20
21	.061	.528	.217	.347	.619	1.71 E	2.28	2.85	.882	.347	.178	.061	21
22	.045	.528	.217	.347	.619	1.57 E	2.42	2.71	.796	.301	.158	.045	22
23	.061	.178	.217	.347	.619	1.40 E	2.42	2.42	.665	.301	.158	.030	23
24	.061	.139	.198	.347	.665	1.71 E	3.86	2.42	.619	.301	.158	.061	24
25	.081	.139	.198	.347	.665	5.47 E	5.47	2.28	.619	.256	.139	.030	25
26	.120	.120	.198	.301	.710	2.55 E	2.71	2.14	.619	.236	.139	.061	26
27	.139	.120	.198	.256	.968	2.56 E	2.56	1.85	.574	.236	.120	.100	27
28	.392	.100	.256	.236	1.23	2.28 E	2.71	1.85	.619	.301	.100	.081	28
29	.217	.100	.217	.236		2.28 E	2.85	1.71	.528	.256	.100	.045	29
30	.158	.081	.217	.236		2.14 E	2.99	1.48	.483	.301	.100	.030	30
31	.217		.217 *	.256		2.00 #		1.40		.301	.100		31
MEAN	.096	.170	.393	.383	1.08	2.03	2.07	3.33	.884	.332	.178	.066	MEAN
MAX	.392	.528	3.86	1.23	3.86	5.47	5.47	5.47	1.31	.483	.301	.100	MAX.
MIN	.015	.081	.081	.217	.301	.966	1.31	1.40	.483	.217	.100	.030	MIN.
AC. FT.	5.90	10.1	24.2	23.5	60.0	125	123	205	52.6	20.4	11.0	3.95	AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	DISCHARGE	MINIMUM	TOTAL
.917	19.0	1.83	4	0	664.2
		MO	DAY	MO	DAY
		24	2215	10	16

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT	DATE						
37 5 12	119 20 35	SW3 10 24				11-2-73		1973		Assumed	

Station located 4.0 miles south of Shaver Lake on Highway 168 and 1.5 miles west on private road. Station operated under contract with Fresno County. Due to the importance of extreme low flows to contractor, the Department of Water Resources criteria of rounding values were not adhered to. Drainage area is 1.3 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	B71406	MUSICK CREEK #1 NEAR SHAVER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	.013	.481	.15*	.430	.797	2.59	3.78	9.64	4.88	1.80	.583	.224	1
2	.062	.224	.157	.430	2.59	2.20	3.78	10.6	4.33	1.69	.532	.224	2
3	.078	.141	10.1	.430	.635	2.00	4.61	11.0	4.33	1.69	.532	.378	3
4	.047	.532	10.1	.430	.635	1.80	4.06	10.6	3.58	1.69	.532*	.157	4
5	.047	.532	1.69	.430	.797	6.32	3.19	8.54*	3.58	1.58	.430	.157*	5
6	.047	.157	1.02*	2.00	.909	6.52	3.78	8.10	3.39	1.47	.430	.157	6
7	.047*	.224	.686	1.47	1.02	8.54*	3.39	8.76	3.19	1.35*	.430	.157	7
8	.110	.378*	.583	2.40	1.69	11.8	3.19	10.3	3.19	1.24	.378	.173	8
9	.094	.327	.532	1.58	7.69	6.32	3.39	11.8	3.19*	1.24	.378	.276	9
10	.078	.327	.481	1.24	5.58	5.06	3.39	12.3	3.39	1.24	.378	.276	10
11	.062	.276	.481	1.02	5.06 E	3.78	2.90	12.8	3.19	1.13	.327	.224	11
12	.062	.224	.481	.909	4.06 E	3.58	3.78	13.6	2.79	1.13	.327	.224	12
13	.078	.224	.481	.797	6.52 E	2.59	4.33	13.8	2.90	1.02	.327	.173	13
14	.094	.224	.481	.797	4.33 E	2.79	4.88*	13.3	2.79	1.02	.327	.157	14
15	.047	.224	.430	.797	3.39 E	2.59	4.06	12.3	2.59	1.02	.276	.157	15
16	.031	.173	.430	.797	2.79 E	2.59	3.19	11.8	2.59	1.13	.276	.141	16
17	.013	.224	.430	.797	2.20 E	2.00	2.90	10.8	2.59	1.24	.276	.141	17
18	.015	.224	.378	.797	1.69*	2.20	2.79	10.6	2.40	1.24	.327	.141	18
19	.110	.276	.430	.797	1.58	2.59	2.90	10.1*	2.40	1.13	.583	.141	19
20	.062	.276	.430	.797	1.47	3.78	4.61	9.42	2.20*	1.02	.481	.126	20
21	.047	2.55	.430	.797	1.35	3.19	5.76	8.54	2.20	.909	.430	.110	21
22	.047	1.24	.430	.797	1.24	2.90	5.93	8.10	2.00	.797	.430	.094	22
23	.047	.481	.378	.797	1.35	2.20	6.52	7.69	1.80	.797	.378	.110	23
24	.047	.378	.327	.686	1.35	3.39	11.1	7.49	1.80	.797	.378	.110	24
25	.047	.327	.378	.686	1.47	13.3	14.8	7.10	2.00	.686	.327	.110	25
26	.062	.276	.378	.635	1.47	6.52	8.76	6.91	2.00	.635	.327	.110	26
27	.078	.224	.430	.583	1.80	4.61	7.69	6.32	2.00	.635	.430	.110	27
28	3.640	.224	.481	.532	2.20	3.78	8.32	5.76	2.40	.635	.378	.126	28
29	.635	.224	.481	.481	3.58	8.76	5.41	2.00	.635	.327	.126	.29	29
30	.378	.173	.481	.481	4.06	9.42	5.23	1.69	.635	.276	.110	.20	30
31	.909		.430*	.481	4.06*		5.23		.635	.276		.31	31
MEAN	.23	.39	1.12	.84	2.42	4.30	4.56	9.48	2.78	1.09	.39	.16	MEAN
MAX	3.64	2.55	10.1	2.40	7.69	13.3	14.8	13.8	4.88	1.80	.583	.378	MAX
MIN	.013	.141	.157	.430	.635	1.80	2.90	5.23	1.69	.635	.276	.094	MIN
AC.FT.	14.2	23.3	68.6	51.8	134 E	264	271	583	165	67.2	24.0	9.8	AC.FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT.	MO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT.	MO	DAY	TIME	TOTAL
2.32	33.9	1.78	12	3	2300		.012	0.32	10	1			1676.7

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD		DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATE	
			CFS	GAGE HT.							
37 5 34	119 19 55	SM2 10 24				11-2-73		1973			Assumed

Station located 4.0 miles south of Shaver Lake on Highway 168 and 2.5 miles west on private road.
 Station operated under contract with Fresno County. Due to the importance of extreme low flows to
 contractor, the Department of Water Resources criteria of rounding values were not adhered to.
 Drainage area is 1.9 square miles.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1975	COL120	KINGS RIVER, SOUTH FORK, BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0			0		0		0	86	0	21	21	1
2	0			0		0		0	186	0	21	21	2
3	0			0		0		0	206	0	21	21	3
4	0			0		0		0	209	0	7	21	4
5	0			0		0		0	213	0	0	21	5
6	0			15		0		0	192	0	0	13	6
7	0			29		0		0	206	0	54	0	7
8	0			41		0		0	220	0	146	20	8
9	0			50		0		0	222	0	152	45	9
10	0			50		0		0	213	0	149	56	10
11	0			50		0		0	102	13	173	56	11
12	0			47		0		0	19	21	185	56	12
13	0			50	N	0		0	6	19	165	56	13
14	7	N	N	52	O	0	N	0	0	6	128	56	14
15	15	O	O	37		0	O	0	0	27	134	56	15
16	15	F	F	19	F	0	F	0	23	37	91	56	16
17	15	L	L	19	L	0	L	10	54	78	0	66	17
18	5	O	O	21	O	0	O	20	54	119	19	73	18
19	0	W	W	19	W	0	W	14	41	122	21	70	19
20	0			34		0		0	31	122	21	59	20
21	0			41		0		0	11	125	21	43	21
22	0			41		0		0	0	131	13	40	22
23	0			41		0		0	0	131	0	37	23
24	0			41		0		0	0	83	41	37	24
25	0			29		0		0	0	0	97	29	25
26	0			0		0		0	0	0	88	28	26
27	0			0		0		0	0	0	66	28	27
28	0			0		0		0	0	0	24	26	28
29	0			0		13		0	0	14	26	27	29
30	0			0		15		0	10	21	22	28	30
31	0			0				0		21	22		31
MEAN	2			23		1		1	77	35	62	39	MEAN
MAX.	15			52		15		20	222	131	185	73	MAX.
MIN.	0			0		0		0	0	0	0	0	MIN.
AC. FT.	113			1440		56		87	4570	2162	3824	2313	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	DISCHARGE	GAGE HT	NO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	NO	DAY	TIME	TOTAL
20.1	222	0	0	6	9	Mean	Daily	0	0	0	10	1		14565

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 10 48	119 50 00	NW20 20S 20E	4102a		6-12-69	1937-DATE					
Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.											
a Maximum discharge since 1950.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C02602	CROSS CREEK BELOW LAKE LAND CANAL NO. 2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 12 42	119 34 05	NE 10 20S 22E				1921-DATE					

Station located downstream from Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0				0	5	5	14	12	15	11	5	1
2	0				0	5	5	14	12	16	9	5	2
3	0				0	5	4	14	12	0	9	5	3
4	0				0	5	4	14	17	5	9	11	4
5	0				0	11	4	14	18	5	9	11	5
6	0				0	11	4	15	16	5	12	11	6
7	0				0	11	5	14	13	5	12	11	7
8	0				0	11	5	14	13	8	12	10	8
9	0				0	11	5	14	13	8	12	10	9
10	0				0	14	8	15	11	15	12	10	10
11	0				0	14	6	15	11	16	12	4	11
12	0				0	11	7	12	11	11	9	4	12
12	0				0	12	6	12	16	11	10	4	13
14	5				0	11	6	12	16	11	10	4	14
15	5				0	12	6	12	16	12	10	7	15
16	5	F	F		0	11	6	13	16	12	10	7	16
17	5	L	L		0	7	6	13	16	12	10	7	17
18	5	O	O		0	7	8	13	16	12	10	7	18
19	5	W	W		0	7	7	13	16	8	5	7	19
20	5.5				0	6	7	13	16	8	5	6	20
21	0				0	6	7	13	16	8	5	5	21
22	0				0	6	7	13	16	5	8	5	22
23	0				0	3	7	13	16	5	11	6	23
24	0				0	3	10	14	16	5	11	6	24
25	0				0	2.5	8	10	16	5	11	5	25
26	0				0	0	8	10	16	9	11	5	26
27	0				6	0	8	11	15	8	11	5	27
28	0				5	0	8	11	15	15	11	5	28
29	0				0	0	17	11	15	15	5	5	29
30	0				0	0	14	11	15	16	5	5	30
31	0				0	0		12.5		11	5		31
MEAN	1					7	7	13	15	10	9	7	MEAN
MAX.	5.5				6	14	17	15	18	16	12	11	MAX.
MIN.	0				0	0	4	10	11	0	5	4	MIN.
AC. FT.	70				22	412	413	792	879	589	579	395	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN
DISCHARGE
5.7

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
18	.49	6	5	1000

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0				

TOTAL
ACRE FEET
4151

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC. T. & R. M. O. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
36 05 00	119 04 50	SW20 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0		0	99	101				1
2					0		0	101	97				2
3					0		0	100	101				3
4					0		0	100	101				4
5					0		0	100	101				5
6					0		0	100	101				6
7					0		0	100	101				7
8					0		0	100	101				8
9					0		0	100	101				9
10					0		0	100	100				10
11					0		0	100	100				11
12					80		0	100	100				12
13	N	N	N	N	79	N	0	99	100	N	N	N	13
14	O	O	O	O	93	O	0	99	100				14
15					94		150	100	100				15
16	F	F	F	F	96	F	150	100	100	F	F	F	16
17	L	L	L	L	95	L	150	100	100	L	L	L	17
18	O	O	O	O	39.5	O	137	100	100	O	O	O	18
19	W	W	W	W	0	W	101	100	100.5	W	W	W	19
20					0		101	100	0				20
21					0		101	100	0				21
22					0		101	101	0				22
23					0		100	101	0				23
24					0		100	101	0				24
25					0		100	101	0				25
26					0		100	101	0				26
27					0		100	101	0				27
28					0		100	101	0				28
29							100	101	0				29
30							100	101	0				30
31								100.5					31
MEAN					19		60	100	64				MEAN
MAX.					96		150	101	101				MAX.
MIN.					0		0	99	0				MIN.
AC. FT.					1143		3552	6164	3780				AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
20.2	154	1.84	4	15	0800	0					14639

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
36 04 25	119 05 15	NW29 21S 27E				MAY 50-DATE					
These flows are deliveries from Friant-Kern Canal into Tule River. Point of delivery is located on the Tule River approximately 4 miles west of Porterville where Friant-Kern Canal crosses the Tule River. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0	0.0		0.0	97.0 b	87.0 b		0.0		1
2			0.0	0.0	0.0		0.0	97.0 b	83.0 b		0.0		2
3			0.0	0.0	0.0		0.0	93.0 b	87.0 b		0.0		3
4			0.0	0.0	0.0		0.0	93.0 b	80.0 b		0.0		4
5			0.0	0.0	0.0		0.0	90.0 b	80.0 b		1.2		5
6			0.0	0.0	0.0		0.0	87.0 b	78.0 b		122.6 *		6
7			0.0	0.0	0.0		0.0	83.0 b	78.0 b		174.0		7
8			0.0	0.0	0.0		0.0	83.0 b	80.0 b		152.0		8
9			0.0	0.0	0.0		0.0	83.0 b	80.0 b		144.0		9
10			7.2 E	0.0	0.0		0.0	83.0 b	87.0 b		152.0		10
11			49.0 E	0.0	0.0		0.0	87.0 b	83.0 b		148.0		11
12			54.0 #	0.0	63.2 b		0.0	87.0 b	90.0 b		144.0 *		12
13	N	N	49.0	0.0	100.0 a	N	0.0	90.0 b	93.0 b	N	148.0 *	N	13
14	O	O	0.0	8.7	87.0 a	O	0.0	93.0 b	90.0 b	O	152.0	O	14
15			0.0	52.0	60.0 a		65.1 b	93.0 b	83.0 b		132.0		15
16	F	F	0.0	54.0	67.0 a	F	157.0 b	100.0 b	80.0 b	F	123.0	F	16
17	L	L	0.0	54.0	70.0 a	L	165.0 b	103.0 b	80.0 b	L	111.0	L	17
18	O	O	0.0	54.0	40.0 b	O	165.0 b	100.0 b	80.0 b	O	107.0	O	18
19	W	W	0.0	54.0	0.0	W	132.0 b	90.0 b	80.0 b	W	21.7	W	19
20			0.0	54.0 *	0.0		111.0 b	83.0 b	30.5 b		0.0		20
21			0.0	58.0	0.0		107.0 b	90.0 b	0.0		0.0		21
22			0.0	58.0	0.0		100.0 b	83.0 b	0.0		0.0		22
23			0.0	30.0	0.0		100.0 b	83.0 b	0.0		0.0		23
24			0.0	0.0	0.0		97.0 b	87.0 b	0.0		0.0		24
25			0.0	0.0	0.0		93.0 b	87.0 b	0.0		0.0		25
26			0.0	0.0	0.0		97.0 b	90.0 b	0.0		0.0		26
27			0.0	0.0	0.0		100.0 b	90.0 b	0.0		0.0		27
28			0.0	0.0	0.0		97.0 b	93.0 b	0.0		0.0		28
29			0.0	0.0	0.0		90.0 b	93.0 b	0.0		0.0		29
30			0.0	0.0	0.0		93.0 b	90.0 b	0.0		0.0		30
31			0.0	0.0	0.0			90.0 b*			0.0		31
MEAN			5.1	15.4	17.4		59.0	90.0	53.6		59.1		MEAN
MAX.			54.0	58.0	100.0		165.0	103.0	93.0		174.0		MAX.
MIN.			0.0	0.0	0.0		0.0	83.0	0.0		0.0		MIN.
AC. FT.			316	946	966		3509	5536	3192		3635		AC. FT.

a - Includes CVP water
 b - All CVP water
 E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT	MO	DAY	TIME	TOTAL
25.0	174.0	1.92	8	7	Mean	Day	0.0						18100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 04 40	119 06 22	NW30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957	1959	0.00	LOCAL
								1959		-3.48	LOCAL

Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7.8					0.0	0.0	14.2	19.6	18.9	16.5	14.5	1
2	8.4					0.0	0.0	14.2	20.3	18.6	17.2	14.5	2
3	8.1					2.3	0.0	14.8	20.6	17.2	18.2	14.2	3
4	7.5					4.4 *	0.0	15.2	20.3	16.2	18.6	14.2	4
5	7.2					4.7	0.0	15.2	19.6	17.2	18.9	13.9	5
6	7.2					4.2	0.0	14.8	19.6	17.2	19.3	13.2	6
7	7.2					5.7	0.0	14.2	18.9	18.2	18.9	12.9	7
8	7.2					7.2	0.0	13.9	18.9	18.2	18.9	12.2 *	8
9	7.2					7.8	0.0	13.5	18.6	18.9	18.9	11.9	9
10	6.8					7.2	0.0	13.2	18.6	19.6	19.3	11.6	10
11	6.5					8.1	0.0	12.9	18.6	20.0	19.3	11.0	11
12	6.0					11.3	0.0	12.5 *	19.3	20.6	18.9	10.7	12
13	6.2	N	N	N	N	13.2	0.0	16.2	20.0	21.6	18.9	10.0	13
14	6.2	O	O	O	O	13.5 *	4.2 E	18.2	19.6	23.0	18.6	9.0	14
15	6.5					13.2	8.7 E	18.6	19.3	23.8	15.8	8.7	15
16	6.5	F	F	F	F	12.9	9.3	18.6	18.9 *	23.8	14.8	8.4	16
17	6.8	L	L	L	L	12.5	10.0	18.9	18.9	24.2	14.5	9.0	17
18	6.8	O	O	O	O	11.9	10.0	19.6	18.9	24.5	14.8	11.0	18
19	7.2	W	W	W	W	3.6	10.0	19.6 *	18.9	22.0	13.5	12.2	19
20	6.8					0.0	9.6	19.3 E	18.2	19.6	12.5	12.5	20
21	6.5					0.0	9.3	18.9 E	18.2	18.2 *	12.5	13.5	21
22	6.8					0.0	9.0	18.6	17.8	18.2	12.5	13.5 *	22
23	6.0					0.0	10.4 E	17.8	17.8	17.5	12.5	15.2	23
24	9.3					0.0	11.0 E	17.8	18.2	17.5	12.2	17.5	24
25	8.4					0.0	11.3 E	17.8	18.2	17.5	12.2 *	15.2	25
26	7.2					0.0	11.3	18.2	17.2	17.8	12.5	10.4	26
27	7.2					0.0	11.3	18.6	15.8	17.8	12.5	11.6	27
28	4.9					0.0	11.6	18.6	18.9	18.2 *	12.5	13.5	28
29	0.0					0.0	13.5	18.9	18.9	18.2	13.5	14.2 *	29
30	0.0					0.0	14.2	19.3 *	18.6 *	18.2	14.2	13.5	30
31	0.0					0.0		19.3		17.5	14.5		31
MEAN	6.3					4.6	5.8	16.6	18.8	19.4	15.7	12.5	MEAN
MAX.	9.3					13.5	14.2	19.6	20.6	24.5	19.3	17.5	MAX.
MIN.	0.0					0.0	0.0	12.5	15.8	16.2	12.2	8.4	MIN.
AC. FT.	390					285	346	1034	1121	1190	968	741	AC FT.

E — ESTIMATED

NR — NO RECORD

* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

— E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
8.4	24.5	1.10	7	18	Mean Daily	0.0					6075

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT DHLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE				OCT 62	0.00 LOCAL
										-2.00	LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.1				0.0		0.0	21.4	22.4	22.8	20.0	0.0	1
2	18.2				0.0		0.0	21.4	21.0 *	23.4	15.4	0.0	2
3	17.4				0.0		0.0	21.4	16.4	7.6	12.1	0.0	3
4	18.2				0.0		0.0	8.9	11.8	0.0	13.8 *	0.0	4
5	17.4				0.0		0.0	0.0	13.0	0.0	9.2	0.0	5
6	17.8				0.0		0.0	0.0	16.4	0.0	0.0	0.0	6
7	20.4				0.0		0.0	0.0	18.6	0.0	0.0	0.0	7
8	21.0				0.0		10.0	0.0	17.8	0.0	0.0	0.0	8
9	20.4				0.0		16.8	0.0	12.1	9.8	0.0	0.0	9
10	11.3				0.0		19.0	0.0	0.0	18.2	0.0	22.3	10
11	0.0				0.0		26.2	0.0	0.0	18.6	4.8	31.6 *	11
12	0.0				0.0		27.5	0.0	0.0	20.0	20.0	32.8	12
13	0.0	N	N	N	0.0	N	26.2	0.0	0.0	20.4	24.0 *	28.0	13
14	0.0	O	O	O	38.9 *	O	27.0	0.0	4.4	20.4 *	24.0	24.8	14
15	0.0				63.0		25.1	0.0	17.4	21.4	24.0	24.8	15
16	0.0	F	F	F	50.6	F	23.4	8.8	20.0	21.9	24.0	25.1	16
17	0.0	L	L	L	43.4	L	25.1	25.8	20.4	24.0	24.4	25.1	17
18	0.0	O	O	O	23.8	O	27.0	27.5	21.0	24.0	17.8 *	25.8	18
19	0.0	W	W	W	0.0	W	26.2	28.8 #	21.0 *	24.8	15.8	26.2	19
20	0.0				0.0		25.8	29.4	21.4	24.4	18.6	27.0	20
21	0.0				0.0		25.8	28.0	21.4 E	18.2 *	18.2	26.2	21
22	0.0				0.0		25.8	31.6	21.4 E	14.3	18.2	26.2	22
23	0.0				0.0		26.2	30.4	21.0 E	15.4	20.0	27.5	23
24	0.0				0.0		25.1	26.2	16.4	16.0	20.0	27.5	24
25	0.0				0.0		26.2	26.2	13.8	18.6	8.7	27.5	25
26	0.0				0.0		29.4	25.1	13.8	20.4	0.0	28.0	26
27	0.0				0.0		29.4	21.0	18.2	21.0	0.0	13.1	27
28	0.0				0.0		29.4	20.4	22.4	21.4	0.0	0.0	28
29	0.0				0.0		24.4	20.4	22.4	21.4	0.0	0.0	29
30	0.0				0.0		21.4	21.0	22.4	20.4	0.0	0.0	30
31	0.0				0.0			21.0		20.4	0.0		31
MEAN	5.7				7.8		18.9	15.0	15.7	16.4	11.4	15.6	MEAN
MAX.	21.0				63.0		29.4	31.6	22.4	24.8	24.4	32.8	MAX.
MIN.	0.0				0.0		0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC.FT.	350				436		1127	922	933	1010	700	931	AC.FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN
DISCHARGE
8.9

MAXIMUM
DISCHARGE
63.0
GAGE HT.
2.67
MO.
2
DAY
15
TIME
Mean
Day

MINIMUM
DISCHARGE
0.0
GAGE HT.
MO.
DAY
TIME

TOTAL
ACRE FEET
6409

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF DATUM	
			CF3	GAGE HT	DATE						
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957	0.00	LOCAL	

Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9				0.0		0.0	12.8 *	11.3	18.5	16.1	0.0	1
2	3.2 E				0.0		0.0	9.8	14.3	13.8	10.4	0.0	2
3	3.4				0.0		0.0	9.8	9.6	4.9	4.3	0.0	3
4	3.5				0.0		0.0	6.4	6.5 *	0.0	4.9 *	0.0	4
5	3.5				0.0		0.0	0.0	6.2	0.0	1.9	0.0	5
6	3.5				0.0		0.0	0.0	8.0	0.0	0.3	0.0	6
7	4.4				0.0		0.0	0.0	17.0	0.0	1.0	0.0	7
8	4.6				0.0		0.0	0.0	21.2	0.0	0.0	0.0	8
9	4.6				0.0		0.0	0.0	12.3	0.3	0.0	0.0	9
10	3.2				0.0		0.0	0.0	1.1	6.1	0.0	0.0	10
11	0.0				0.0		4.7	0.0	0.0	7.0	0.0	4.4	11
12	0.0				0.0		10.4	0.0	0.0	7.2	3.0	14.8	12
13	0.0				0.0		10.6	0.0	0.0	7.7	9.9	12.5	13
14	0.0	N	N	N	0.5	N	12.8	0.0	0.0	8.9 *	7.4	8.4	14
15	0.0	O	O	O	2.4	O	12.3	0.0	3.2	9.3	8.6 *	9.5 *	15
16	0.0				2.4		10.5 *	0.0	10.2 *	10.9	10.0	10.7	16
17	0.0	F	F	F	1.7	F	11.4	3.0	10.0	10.2	10.9	12.5	17
18	0.0	L	L	L	1.3	L	13.8	6.8	11.3	9.0	7.9	17.4	18
19	0.0	O	O	O	0.0	O	13.0	5.7	11.4	8.9	4.4	18.1	19
20	0.0	W	W	W	0.0	W	12.3	9.1	12.2	8.4	6.6	19.2	20
21	0.0				0.0		10.9	9.9 *	15.1	8.0 *	6.3	16.6	31
22	0.0				0.0		10.2	10.4	18.7	6.8	6.0	15.1	32
23	0.0				0.0		11.7	9.9	14.8	7.8	7.7	15.7	33
24	0.0				0.0		12.3	8.6	10.7	8.2	8.1	17.9	34
25	0.0				0.0		13.6	8.6	6.6	9.5	4.9	19.4	35
26	0.0				0.0		13.1	10.7	6.5	8.0	0.0	20.4	36
27	0.0				0.0		12.2	7.8	9.4	7.8	0.0	12.6	37
28	0.0				0.0		18.5	7.7	19.0	8.2 *	0.0	0.0	38
29	0.0						19.4	8.8	19.9	8.6	0.0	0.0	39
30	0.0						15.1	9.6 *	21.2	9.6	0.0	0.0	40
31	0.0							7.8		12.3	0.0		41
MEAN	1.1				0.3		8.3	5.3	10.3	7.3	4.5	8.2	MEAN
MAX.	4.6				2.4		19.4	12.8	21.2	18.5	16.1	20.4	MAX.
MIN.	0.0				0.0		0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	69				16		494	324	611	448	279	486	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE GAGE HT. MO. DAY TIME	DISCHARGE GAGE HT. MO. DAY TIME	ACRE FEET
3.8	21.2 2.91 6 8 Mean Daily	0.0	2727

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R MO B & M	DF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
36 04 06	119 01 06	SE26 21S 27E				JAN 43-DATE		1943		0.00 LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.5 E							0.0	4.7	5.2	1.8	0.0	1
2	0.5 E							0.0	5.0	4.8 E	0.0	0.0	2
3	0.5 E							0.0	5.7	5.0	0.0	0.0	3
4	0.5 E							0.0	5.9	5.2	0.0	0.0	4
5	0.5 E							0.0	5.8	5.0	0.0	0.0	5
6	0.5 E							0.0	5.7	4.9	4.5	0.0	6
7	0.5 E							0.0	5.4	5.7	5.7	0.0	7
8	0.5 E							0.0	5.3	5.7	5.3	0.0	8
9	0.5 E							0.0	5.0	5.7	5.3	0.0	9
10	0.5 E							0.0	4.8	5.6	5.4	0.0	10
11	0.5 E							0.0	4.7	5.2	5.3 *	0.0	11
12	0.5 E							0.0	4.7	4.9	5.2	0.0	12
13	0.5 E	N O	N O	N O	N O	N O	N O	0.0	5.0	4.9	5.0	0.0	13
14	0.5 E							0.0	5.3	4.8	5.2	0.0	14
15	0.5 E							0.0	5.2	4.8	5.0	0.0	15
16	0.5 E	F L O	F L O	F L O	F L O	F L O	F L O	2.9	5.0	4.8	5.0	0.0	16
17	0.0							4.5	5.3	5.0	4.9	0.0	17
18	0.0							4.1	5.4	5.2	4.8 *	0.0	18
19	0.0							3.6 *	5.6 *	5.3	2.6	0.0	19
20	0.0							3.4	5.6	5.4	0.0	0.0	20
21	0.0							3.3	5.6	5.4 *	0.0	0.0	21
22	0.0							3.6	5.6	5.7	0.0	0.0	22
23	0.0							3.9	5.6	6.1 E	0.0	0.0	23
24	0.0							3.9	5.7	6.4 E	0.0	0.0	24
25	0.0							4.0	5.7	6.7 E	0.0	0.0	25
26	0.0							4.2	5.6	7.3	2.4	0.0	26
27	0.0							4.8	5.6	7.8	7.5 *	3.1	27
28	0.0							4.7	5.4	8.4	3.0	4.4	28
29	0.0							4.6	5.3	9.0	0.0	4.2 *	29
30	0.0							4.6	5.2 *	9.7	0.0	4.2	30
31	0.0							4.6		10.5	0.0		31
MEAN	0.3							2.1	5.3	6.0	2.7	0.5	MEAN
MAX.	0.5							4.8	5.9	10.5	7.5	4.4	MAX.
MIN.	0.0							0.0	4.7	4.8	0.0	0.0	MIN.
AC FT	16							128	318	369	166	32	AC FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL
1.4	10.5	0.0	1029

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE			1948		0.00 LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

JULY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.0 E	0.0	0.0	0.0	0.0	127.4	0.0	33.0	40.0	49.0 *	123.2	128.6	1
2	37.4	0.0	52.0	0.0	0.0	128.0	0.0	33.0	35.4	45.6	121.4	132.2	2
3	27.7	0.0	52.0	0.0	15.3	127.4	0.0	31.4	27.4	81.8	119.6	136.0	3
4	55.1	0.0	51.0	0.0	15.8	55.2 *	0.0	29.0	26.2	106.4	120.8	135.4	4
5	67.4	0.0	51.0	0.0	0.0	18.6	0.0	28.3	26.2	107.0	125.6	134.8	5
6	62.2	0.0	50.5	0.0	0.0	19.4	0.0	27.4	26.2	107.0	129.2 *	132.2	6
7	61.3	0.0	50.0	0.0	0.0	20.7	8.3	28.3	26.2	110.4	130.4	132.8	7
8	61.3	0.0	50.0	0.0	0.0	24.1	14.2	27.0	30.6	114.1	120.2	133.4	8
9	58.0	0.0	46.6 *	19.2	0.0	26.2	10.8	27.4	33.0	109.0	112.6	132.8	9
10	19.5	0.0	47.0	31.0	0.0	22.9	11.6	29.8	33.9	97.6	115.6	131.0	10
11	0.0	0.0	46.1	32.6	45.8 *	17.4	10.0	33.0	34.4	100.8	117.0	135.4	11
12	0.0	0.0	46.1	35.2	77.8	18.6	6.2	31.0	35.2	100.8	122.0	136.6	12
13	0.0	0.0	43.4	37.8	77.2	21.0	2.7	29.0	37.8	103.3	126.8	136.0	13
14	0.0	0.0	8.6	39.1	84.6	17.4	7.0	30.2	39.1	104.6	126.8	129.2	14
15	0.0	0.0	0.0	40.6	90.2	16.9	13.7	30.6	38.2	104.0	132.8	131.6 *	15
16	0.0	0.0	0.0	41.0	96.9	18.1	17.4 *	29.4	37.0	104.6	132.8	131.6	16
17	0.0	0.0	0.0	40.0	101.4	17.2 *	28.6	31.0	38.2	113.2	131.6	125.0	17
18	0.0	0.0	0.0	40.0	104.6	16.4	43.9	32.6	39.6	119.6	132.2 *	129.8	18
19	0.0	0.0	0.0	40.0 *	108.3	5.2	44.2	32.1 *	40.0	123.2	128.0	134.2	19
20	0.0	0.0	0.0	39.6	106.4	0.0	42.9	32.1	40.6	120.2	123.8	130.4	20
21	0.0	0.0	0.0	40.6	105.2	0.0	41.9	29.0	41.4	116.2 *	93.8 *	130.4	21
22	0.0	0.0	0.0	39.6	105.8	0.0	40.6	25.8	43.4	119.0	89.0	135.4	22
23	0.0	0.0	0.0	34.8	107.0	0.0	40.0	24.1	41.9 *	125.0	97.6	136.0	23
24	0.0	0.0	0.0	8.2	108.3	0.0	36.1	22.9	41.9	125.6	101.4	137.8	24
25	0.0	20.4	0.0	0.0	119.6	0.0	30.6	25.5	44.2	123.8	102.0	138.4	25
26	0.0	46.6 *	0.0	0.0	126.2 *	0.0	28.6	31.8	45.1	119.6	123.2 *	136.6	26
27	0.0	54.0	0.0	0.0	126.8	0.0	28.3	42.4	47.0	120.2	134.8	134.2	27
28	0.0	52.0	0.0	10.1	126.8	0.0	29.0	42.4	47.0	121.4	137.2	134.2	28
29	0.0	47.0	0.0	6.2	0.0	0.0	31.4 *	41.0	44.2	122.0	136.0	133.4	29
30	0.0	47.6	0.0	5.4	0.0	0.0	32.1	40.0 *	47.6	122.6	134.8	133.4	30
31	0.0	0.0	0.0	2.1	0.0	0.0	0.0	40.0	122.0	135.4	135.4	133.4	31
JAN.	14.6	8.9	20.8	18.8	66.1	23.2	20.0	31.3	37.6	108.4	121.9	133.3	MEAN
AX	67.4	54.0	52.0	41.0	126.8	128.0	44.2	42.4	47.6	125.6	137.2	138.4	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	26.2	45.6	89.0	125.0	MIN.
IN. FT.	897	531	1278	1156	3669	1424	1190	1925	2240	6664	7493	7932	AC FT.

— ESTIMATED
 * — NO RECORD
 — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
50.3	138.4	3.45	9	25	Mean Daily	0.0					36399

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGENT	DATE				FROM	TO	
36 03 18	119 00 54	SW36 21S 27E				APR 42-DATE			1942		0.00 LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0					0.0	0.0	4.4 E	1.8 E	10.9	7.6	1.6 a	1
2	0.0					0.0	0.0	4.9 #	2.9 E	16.9	6.2	1.0 a	2
3	0.0					0.0	0.0	5.6	6.0	16.9	6.5	1.0 a	3
4	0.0					0.3	0.0	6.2	7.4	14.8	10.2 *	1.0 a	4
5	0.0					3.2	0.0	6.0	7.0	15.6	16.7	1.0 a	5
6	0.0					4.1	0.0	5.7	5.6	15.8	12.3	1.0 a	6
7	0.0					3.9 *	0.0	5.4 E	6.0	8.8	11.3	2.3	7
8	0.0					4.2	0.0	5.5	1.2	17.2	10.4	3.6	8
9	0.0					4.5	3.2	5.2	4.8	9.5 *	10.2	3.4	9
10	0.0					4.5	5.0	5.1	6.6	8.3	10.1	3.6	10
11	0.4					4.2	5.5	4.4	6.5	7.1	8.9 *	5.4 *	11
12	2.3					4.7	5.3	3.8	0.0	6.8	10.2	4.1 E	12
13	6.2	N	N	N	N	4.6	5.2 E	5.3	9.3	7.4	8.4	2.5 a	13
14	6.5	O	O	O	O	5.1	4.7 E	5.4	11.3	7.5	4.2	2.5 a	14
15	5.9					5.2	3.8 E	5.5	11.3	7.8	4.7 *	1.2 a	15
16	4.9	F	F	F	F	4.8	3.6 E	4.8	10.6 *	9.6	6.3	3.0	16
17	0.0	L	L	L	L	2.2	2.1 E	0.0	11.9	7.1	7.0	2.8	17
18	0.0	O	O	O	O	0.0	0.0	1.4	11.9	7.1	7.5	2.3	18
19	0.0	W	W	W	W	0.0	0.0	3.1	12.1	8.3	14.5	2.3	19
20	0.0					0.0	0.0	3.4	12.5	8.9	14.0	2.3	20
21	0.0					0.0	0.0	3.7 *	11.0	11.3 *	10.1	2.3	21
22	0.0					0.0	0.0	1.5	12.3	14.0	6.8	1.2	22
23	0.0					0.0	0.0	0.0	12.3	14.3	5.1	0.0	23
24	0.0					0.0	0.0	0.0	13.3	14.8	5.0	0.0	24
25	0.0					0.0	0.0	0.0	14.5	15.8	5.0 *	0.0	25
26	0.0					0.0	2.6	0.0	16.4	17.2	5.5 E	0.0	26
27	0.0					0.0	3.8	0.0	16.1	17.5	5.6 E	0.0	27
28	0.0					0.0	3.4	0.0	16.4	17.5	5.9	0.0	28
29	0.0					0.0	3.6	0.0	18.2	17.5	5.5 *	0.0	29
30	0.0					0.0	4.4 E	0.0	15.6	14.0 E	2.0	0.0	30
31	0.0					0.0	0.0	0.0		9.7	1.0 a		31
MEAN	0.8					1.8	1.9	3.1	10.0	12.1	7.9	1.7	MEAN
MAX	6.5					5.2	5.5	6.2	18.2	17.5	16.7	5.4	MAX
MIN.	0.0					0.0	0.0	0.0	1.8	6.8	1.0	0.0	MIN.
AC. FT.	52					110	111	191	597	744	485	101	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *
a - Gate leakage

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
3.3	18.2	2.40	6	29	Mean Daily		0.0						2391

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CF5	GAGE HT	DATE						
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942	0.00	LOCAL	

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	93.0	0.0	88.5	0.0	0.0					0.0	223.0	175.0	1
2	86.6	0.0	88.0 *	0.0	0.0					0.0	213.0	179.0	2
3	73.8	0.0	94.0	0.0	0.0					0.0	224.0	165.0	3
4	55.0	0.0	107.4 E	0.0	0.0					0.0	216.0	164.0	4
5	0.0	0.0	96.9 E	0.0	0.0					0.0	200.0	179.0	5
6	0.0	0.0	97.4 E	0.0	0.0					0.0	209.0 *	189.0	6
7	0.0	0.0	97.9	0.0	0.0					35.6	205.0	170.0	7
8	0.0	0.0	97.4	0.0	0.0					171.0 *	202.0	166.0	8
9	0.0	0.0	77.6	0.0	0.0					190.0	197.0	165.0	9
10	0.0	0.0	33.0	0.0	0.0					189.0	191.0	158.0	10
11	0.0	0.0	46.5	0.0	13.1					173.0	200.0	159.0 *	11
12	0.0	0.0	48.2	5.5	142.1 *					157.0	207.0	172.0 *	12
13	0.0	0.0	45.8	16.4	163.5 a	N	N	N	N	162.0	209.0	174.0	13
14	0.0	0.0	7.6	15.1	146.0 a	D	D	D	D	171.0	192.0	176.0 E	14
15	0.0	0.0	0.0	16.2	124.9 a					170.0	176.0 *	175.0 E	15
16	0.0	0.0	0.0	19.3	126.3 a	F	F	F	F	170.0	164.0	157.0 *	16
17	0.0	0.0	0.0	21.5	127.2 a	L	L	L	L	170.0	160.0	150.0 *	17
18	0.0	0.0	0.0	23.0	120.0	O	O	O	O	164.0	154.0	155.0	18
19	0.0	0.0	0.0	22.5	23.5 E	W	W	W	W	168.0	178.0	157.0	19
20	0.0	0.0	0.0	22.0 *	23.5 E					174.0	185.0	157.0	20
21	0.0	0.0	0.0	19.0	0.0					180.0 *	192.0	148.0	21
22	0.0	0.0	0.0	19.0	0.0					189.0	189.0	134.0 *	22
23	0.0	0.0	0.0	16.2	0.0					199.0	185.0	143.0	23
24	0.0	0.0	0.0	0.0	0.0					201.0	179.0	159.0	24
25	0.0	0.0	0.0	0.0	0.0					201.0 *	178.0 *	166.0	25
26	0.0	7.5	0.0	0.0	0.0					212.0	184.0	175.0	26
27	0.0	71.0	0.0	0.0	0.0					217.0	190.0	173.0	27
28	0.0	80.0	0.0	0.0	0.0					209.0	202.0	179.0	28
29	0.0	91.0	0.0	0.0	0.0					203.0	203.0 *	178.0	29
30	0.0	93.5	0.0	0.0	0.0					208.0	192.0	166.0	30
31	0.0	0.0	0.0	0.0	0.0					217.0	168.0		31
MEAN	9.9	11.4	33.1	7.0	36.1					145.2	192.5	165.4	MEAN
MAX.	93.0	93.5	107.4	23.0	163.5					217.0	224.0	189.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0					0.0	154.0	134.0	MIN.
AC. FT.	612	680	2035	428	2004					8927	11835	9844	AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *
a - Includes CVP water

MEAN DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM	GAGE HT	MO	DAY	TIME	TOTAL ACRES FEET
50.2	224.0	7.65	8	3	Mean Daily	0.0					36365

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D S & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942	0.00	LOCAL	

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1258	624	341	326	498	976	660	1089	1204	1688	1711	844	1
2	1304	622	284	307	553	928	719	989	1277	1658	1655	841	2
3	1194	620	260	273	718	933	771	1008	1334	1559	1772	788	3
4	967	619	338	270	668	970	678	1019	1296	1537	1851	739	4
5	1002	609	458	270	584	1020	683	1015	1299	1593	1819	675	5
6	1120	583	560	285	555	1024	649	917	1310	1634	1776	661	6
7	1051	509	569	279	535	1048	640	889	1339	1624	1673	626	7
8	1028	496	571	295	530	877	610	875	1474	1689	1583	600	8
9	1080	480	550	298	549	864	563	586	1744	1731	1522	574	9
10	1003	479	456	323	573	837	588	775	1833	1698	1563	598	10
11	932	455	403	331	521	705	605	808	1846	1772	1520	630	11
12	916	472	296	348	488	611	560	847	1863	1850	1581	601	12
13	901	515	296	388	499	706	536	959	1814	1892	1652	572	13
14	905	603	305	380	508	714	538	1024	1760	1888	1585	580	14
15	906	643	355	371	497	615	536	1036	1747	1910	1517	560	15
16	900	73	354	371	491	598	551	1053	1781	1903	1665	541	16
17	917	753	348	344	488	582	584	999	1759	1779	1700	542	17
18	945	742	352	375	499	560	546	919	1718	1767	1726	516	18
19	941	697	352	357	549	586	543	903	1735	1785	1589	510	19
20	923	708	393	349	641	596	544	873	1714	1778	1451	511	20
21	887	736	374	351	658	600	521	845	1696	1760	1405	538	21
22	646	697	378	345	680	613	521	835	1701	1770	1283	562	22
23	640	686	373	371	730	604	529	836	1692	1787	1217	539	23
24	640	672	362	367	797	595	614	807	1616	1842	1220	494	24
25	631	696	312	366	835	641	628	803	1558	1868	1189	470	25
26	628	705	311	372	902	718	713	868	1561	1896	1190	454	26
27	623	708	325	375	992	657	774	945	1590	1922	1187	408	27
28	645	700	360	371	1029	644	852	1040	1557	1873	1091	399	28
29	635	668	357	367	637	997	1069	1575	1830	1887	887	416	29
30	622	469	343	405	622	1129	1065	1602	1817	1817	831	423	30
31	619		329	469	627		1113		1820	832			31
MEAN	884	623	376	345	627	733	646	929	1600	1772	1459	574	MEAN
MAX.	1317	826	573	496	1130	1104	1138	1145	1883	1948	1860	883	MAX.
MIN.	595	372	232	251	485	514	482	381	1184	1503	816	392	MIN.
AC. FT.	54365	37085	23137	21221	34844	45041	38444	57142	95197	108932	89738	34139	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
883	1948	232	639285
	GAGE HT.	GAGE HT.	
	MO	MO	
	DAY	DAY	
	TIME	TIME	
	7		

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D S A M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
35 25 9	118 56 8	SW 2 29S 28E	36000 92908	461.37 454.94	11-19-50 12-6-66	1893-DATE				0.0 0.0	Mean sea level

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Canal and Water Company. Drainage area is 2,407 square miles.

^a Maximum flow since construction of Isabella Dam in 1954.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C05180	KERN RIVER AT SECOND POINT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0.0	34	209	8	413	255	573	577		1
2				0.0	39	163	6	359	301	591	530		2
3				0.0	108	125	19	364	353	558	520		3
4				0.0	228	139	19	367	371	574	526		4
5				0.0	211	165	19	359	396	573	555		5
6				0.0	200	178	17	296	492	573	572		6
7				0.0	187	175	16	171	494	564	571		7
8				0.0	181	139	15	158	480	564	544		8
9				0.0	184	74	10	133	511	607	586		9
10				0.0	211	77	8	93	527	609	420		10
11				0.0	221	66	17	188	566	609	409		11
12				0.0	184	25	17	167	686	636	394		12
13	N	N	N	0.0	203	34	14	178	741	657	378	N	13
14	O	O	O	0.0	213	42	1	196	737	691	434	O	14
15	O	O	O	0.0	210	25	16	198	652	692	446		15
16	F	F	F	0.0	199	18	23	226	650	695	401	F	16
17	L	L	L	0.0	195	9	27	215	631	668	375	L	17
18	O	O	O	0.0	188	11	39	184	617	645	350	O	18
19	W	W	W	0.0	185	2	47	154	605	716	365	W	19
20				0.0	197	5	54	182	601	759	356		20
21				0.0	195	5	48	196	609	702	287		21
22				0.0	189	4	35	200	632	646	255		22
23				0.0	186	8	38	196	628	592	233		23
24				0.0	206	10	64	198	617	570	175		24
25				0.0	210	6	91	215	596	594	130		25
26				0.0	212	6	131	192	552	585	105		26
27				0.0	210	5	202	187	514	614	93		27
28				0.0	204	5	230	199	526	624	97		28
29				0.0		4	270	222	524	603	96		29
30				0.0		6	352	208	548	599	50		30
31				23.0		12		215		594	0		31
MEAN				1	185	56.5	61.8	220	547	622	346		MEAN
MAX.				23	228	209	352	413	741	759	577		MAX.
MIN.				0.0	34	2	1	93	255	558	0.0		MIN.
AC. FT.				46	10294	3475	3675	13545	32553	38235	21283		AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE GAGE HT. MO. DAY TIME	DISCHARGE GAGE HT. MO. DAY TIME	ACRE FEET
170	759 7 20	0 10 1	123106

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
35 18 02	119 15 25	SE23 30S 25E								

Station located 0.5 mile west of Highway 43 on Kern River. Records furnished by Buena Vista Water Storage District. Tabulated discharge is the regulated flow.

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C07115	AVENAL CREEK AT HIGHWAY 33

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
35 43 50	119 59 35	36-24S-18E						1974			Local
Station located on upstream side of bridge over Avenal Creek, 7.6 miles south of Highways 41 and 33 intersection. There are no upstream reservoirs. Drainage area is 149 square miles.											

TABLE B-3 (Cont.)
DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1975	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN AC. FT.													MEAN MAX. MIN AC. FT.

INSUFFICIENT DATA TO PUBLISH

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	MAXIMUM					MINIMUM				TOTAL ACRE FEET
	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
35 12 21	119 24 35	NW28 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL
Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).											

DIVERSIONS

Diversion data formerly collected by the Department of Water Resources for the Stanislaus, Tuolumne, Merced, and San Joaquin Rivers and Dry Creek near Modesto have been discontinued. The last publication of such diversion data was in Bulletin 130-70.

The diversion data shown in Tables B-4 through B-8 have been furnished by the U. S. Bureau of Reclamation, City and County of San Francisco, local agencies including irrigation and water districts, and the Department's Division of Operations and Maintenance. Figures shown are monthly and annual acre-feet amounts of water diverted from the San Joaquin River, deliveries from project canals, deliveries to irrigation districts, and imports to and exports from the San Joaquin Valley.

The diversion data are published as received without rounding according to criteria normally used by the Department.

TABLE B-4

DIVERSIONS - SAN JOAQUIN RIVER
Fremont Ford Bridge to Gravelly Ford
October 1974 through September 1975

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT. ACRE- FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE	124.														
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVINSON	136.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS	186.1														
San Luis Canal Company	186.6 L		9495	6333*		726	3929	12768	13291	21128	26781*	29013	27676	18581	169711
--FIREBAUGH BRIDGE	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA															
--MENDOTA DAM	208.63														
Central California Irrigation District	208.63 L	Capacity	22209	6656*		7185	15369	32767	54868	69773	7494*	6344*	80742*	41195	a 491234*
--FRESNO SLOUGH	209.0 L														
--DELTA-MENDOTA CANAL b	(10.2L)														
Firebaugh Canal Company b	(10.4L)		1267	204	6	4491	3182	2861	6682	5462	6682	7252	6822	2300	a 49862
M. Jensen															
Dudley, et al. (Marchina Bros)	b (13.4L)		0	0	0	173	343	365	137	34	290	268	218	26	1798
State of California b (6.45-8.20) Mendota Waterfowl Management			4780	1668	1	1065	561	454	484	1230	2834	2231	2795	4445	22549
Fresno Slough Water District	b (9.20-10.50)		58	0	0	262	637	75	468	314	448	65*	655	196	3769
--JAMES BYPASS b	(11.80R)														
Mason A. Loundy c (Traction Ranch)	(11.75)		81	2	0	54	339	448	45	393	141	772	1012	500	4769
Reclamation District 1606 c	(11.50)		0	0	0	48	73	0	81	0	221	161	212	6	802
James Irrigation District c	(4.4)		0	0	0	2807	5968	704	5032	5756	1131	8739	7823	1882	47042
Tranquillity Irrigation District b	(12.00-13.75)		60	0	0	2541	4760	528	1216	2632	5760	6392	6393	250	33919
Melvin D. Hughes b	(12.20)		0	0	0	0	0	12	1	12	14	16		12	61
--LONE WILLOW SLOUGH	219.8 R														
Columbia Canal Company	219.8 R		4228	182	6	1783	3979	3528	4778	8224	8995	9636	9299	6084	61740
State Center Land Company			0	0	0	0	0	0	0	0	0	0	0	0	
M. Beck			31	24	0	0	0	0	0	18	0	0	0	0	73
Tulle Gun Club			14	0	0	0	0	0	0	0	10	18	0	0	30
Westlands Water District			164	0	0	0	2245	2862	2309	2527	4136	4465	3142	0	2175
Grasslands			24028	2846	0	0	0	0	0	0	0	0	0	12454	39328
T. W. Wilson			0	0	0	56	85	0	56	0	103	74	161	32	56
Laguna Water District			0	0	0	0	0	0	0	0	200	150	80	680	
Tranquillity Gun Club			0	0	0	0	0	0	0	0	80	0	0	0	80
Cole Gun Club			6	0	0	0	0	0	0	0	0	0	0	6	120
Patos Unlimited			10	0	0	0	0	0	0	0	0	106	0	0	212
120 Duck Club			60	0	0	0	0	0	0	0	0	0	0	60	120
Pacheco Water District			204	0	0	0	0	0	0	0	0	0	0	0	204
Mercy Springs Water District			0	0	0	0	0	0	0	0	700	700	700	0	2100
--SAN JOAQUIN RIVER AT CHONCHILLA BYPASS	219.83														
--GRAVELLY FORD CANAL	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			66940	18415	0	18390	35502	77820	84820	114808	135221	146164	139987	89441	905550
Average cubic feet per second			1089	309	0	299	639	908	142*	186*	2272	2377	227*	1564	1251
Monthly use in percent of seasonal			7.4	2.0	0	2.1	3.9	6.2	9.4	12.7	14.9	16.1	15.7	9.4	100.0

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and do not include operational spill. Acre-foot values are published as received and not rounded to the criteria used by the Department of Water Resources.

- a. Includes purchased and transferred water.
- b. Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
- c. Plant is located on Fresno Slough which diverts from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
- d. One 6-inch pump located on arm of slough at SW corner of S. 12, T. 14S, R. 15E.
- e. One 8-inch pump located on arm of slough 1400 feet S of NE corner, S. 24, T. 14S, R. 15E.
- f. One 8-inch pump located on arm of slough adjacent to M. Beck.
- g. Total does not include deliveries under separate agreement by San Luis Water District.

TABLE B-5

San Joaquin and Merced River Water - Total Diversion and Acreage Irrigated
 for 1974 through September 1, 1975

WATER USER	DIVERSION												ACREAGE IRRIGATED		
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE
<u>Priant-Kern Canal</u>															
San Joaquin River ^a															
Total acre-feet diverted	44.1	21.1	2.11	7.3	7.3	14.0	14.0	24.4	14.0	21.4	10.13	13.2	180.8		
Average cubic feet per second	2.2	1.1	.11	.37	.37	.60	.70	1.22	.70	1.07	.51	.67	10.0		
Monthly use in percent of seasonal	1.3	1.0	.2	.2	.2	.3	.3	.5	.3	.4	.2	.3	4.8		
<u>Madera Canal</u>															
Total acre-feet diverted	1.0	.7	1.1			17.0	24.0	10.0	22.0		51.6	12.0	110.11		
Average cubic feet per second	.05	.04	.06			.88	1.20	.50	1.10		2.86	.67	4.41		
Monthly use in percent of seasonal	.1	.1	.1			2.2	3.0	1.2	2.7		6.4	1.5	1.1		
<u>Merced Irrigation District</u>															
Merced River															
Main Canal	1,474	3,646	3,552	1,481	1,704	4,000	4,904	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Northside Canal	0	52	131	165	165	165	121	300	410	400	400	400	400	400	400
Total acre-feet diverted	1,474	3,698	3,683	1,646	1,869	4,165	5,025	1,300	1,410	1,400	1,400	1,400	1,400	1,400	1,400
Average cubic feet per second	2.9	6.2	6.3	3.4	3.2	6.8	8.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Monthly use in percent of seasonal	3.0	6.0	6.6	0.3	0.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<u>Turlock Irrigation District</u>															
Turlock River															
Total acre-feet diverted	24.0	55.0	46.5	27.0	26.0	213.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0	174.0
Average cubic feet per second	4.0	9.2	7.7	4.5	4.3	35.5	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
Monthly use in percent of seasonal	3.6	8.0	6.6	4.3	0.1	7.0	4.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<u>Modesto Irrigation District</u>															
Total acre-feet diverted	10.12	15.24	27.7		4.1	1.0	4.21	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Average cubic feet per second	2.8	3.6	7.7		.7	.1	.9	.1	.1	.1	.1	.1	.1	.1	.1
Monthly use in percent of seasonal	4.8	4.4	7.1		1.4	.3	3.1	.3	.3	.3	.3	.3	.3	.3	.3
<u>Waterford Irrigation District</u>															
Total acre-feet diverted	23.0					1.0	4.74	1.44	1.44	1.44	1.44	1.44	1.44	1.44	1.44
Average cubic feet per second	.5					.13	.8	.14	.14	.14	.14	.14	.14	.14	.14
Monthly use in percent of seasonal	.4					1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
<u>Oakdale Irrigation District</u>															
Stanislaus River															
Northside Canal	13.91					121	110.42	243.2	25.48	240.74	220.11	144.41	129.80	129.80	4190
Southside Canal	14253					1710	17000	7272	7312	7100	240.04	243.33	150.45	150.45	36
Total acre-feet diverted	12944					2220	241.2	440.6	50.62	450.74	460.22	442.74	3240.32	442.74	
Average cubic feet per second	534					0	36	4.90	.66	1.7	8.24	7.34	440	440	
Monthly use in percent of seasonal	10.1					0	0.7	4.0	.10	.10	1.4	15.0	13.7	13.7	
<u>South San Joaquin Irrigation District</u>															
Total acre-feet diverted	751				434	20703	23740	4447	11291	1463	49843	26620	37740	112	
Average cubic feet per second	93				.46	238	266	508	130	167	511	481	427	427	
Monthly use in percent of seasonal	1.3				1.3	6.8	12.9	1.7	16.4	17.1	16.2	9.3	9.3	9.3	

a Data for Madera and Priant-Kern Canals furnished by H. J. Bates of Reclamation. All other data furnished by individual irrigation districts and published as received.

b An additional 61,188 acre-feet of water was pumped from wells.

c Of this acreage, 1,311 were double cropped. Does not include an undetermined amount of riparian water users acreage.

d An additional 120,000 acre-feet of water was pumped from wells.

e Of this acreage, 41,605 were double cropped.

f An additional 37,600 acre-feet of water was pumped from wells.

g Of this acreage, 10,491 were double cropped.

h An additional 220 acre-feet of water was pumped from wells.

i Of this acreage, 495 were double cropped.

j Of this acreage, 914 were double cropped.

k Of this acreage, 494 were double cropped.

l This acreage also received 8,225 acre-feet of water from wells and controlled drainage.

m This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 8,400 were double cropped.

TABLE B-6
DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1974 through September 1975

WATER USER	MILE POST FROM CANAL HEAD FROM TO	MONTHLY DELIVERIES IN ACRE- FEET												TOTAL
		OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
Delta-Mendota Canal														
Plain View Water District	4.22 20.96	493	1	0	0	1	432	2022	4047	3564	3587	3450	2023	19617
The Westside Irrigation District	14.79	25	0	0	0	0	0	283	3004	1842	3025	3075	451	11705
Hospital Water District	18.05 30.96	987	19	0	276	559	900	3048	5298	6516	5988	5054	2980	31625
Santa-Carbena Irrigation District	20.42	243	0	0	144	331	298	0	4353	1353	1308	3294	805	12129
Kern Canon Water District	31.31 35.18	233	66	0	52	167	149	877	1230	1723	1451	1296	615	7859
West Stanislaus Irrigation District	31.31 38.14	0	0	0	6	0	613	2502	8016	8707	8779	7333	193	36149
Del Puerto Water District	35.73 42.51	413	9	0	90	128	336	1615	2717	3815	2759	2420	1324	15626
Salado Water District	42.10 46.85	0	0	0	0	46	358	1425	2701	2100	2091	1347	369	10437
Patterson Water District	42.51	38	0	0	49	59	400	707	1741	1639	739	1134	216	6722
Sunflower Water District	44.22 52.02	86	0	0	68	101	914	2084	2771	3323	2494	2114	865	14820
Orestimba Water District	46.83 51.41	77	0	0	343	90	441	2938	3908	2879	4494	2979	1012	19161
Foothill Water District	51.65 57.46	532	0	0	0	210	501	1133	1971	2193	2025	1972	1353	11890
Davis Water District	51.64 56.82	143	0	0	159	72	74	674	881	911	1091	673	431	5109
Mustang Water District	56.80 62.67	153	42	0	107	38	263	1256	2614	2658	3261	2898	1155	14445
Central California Irrigation District	58.26 76.06	130	36	0	176	308	734	4111	10622	12334	12973	11125	2549	55096
Quinto Water District	64.32 67.55	50	18	0	0	0	110	732	1251	1293	1212	1330	498	6494
Centinella Water District	66.20	248	2	0	0	0	34	197	453	661	612	539	399	3125
Romero Water District	66.70 68.03	71	0	0	0	0	45	647	651	307	713	937	606	3970
San Luis Water District, Municipal and Industrial	69.21	12	1	0	1	1	0	9	19	18	20	20	16	117
San Luis Water District	69.21 90.53	2850	579	0	3328	7384	4761	10262	11752	13086	12855	11497	5333	83687
William Affonso	80.03	0	0	0	0	0	0	82	0	48	55	65	1	250
Grassland Water District	70.00	11618	1977	0	0	0	0	0	0	0	0	0	0	5076
Pacheco Water District	90.52	0	0	0	0	0	0	0	0	1336	1968	1158	280	4742
San Hamburg Farms	90.53	0	2	0	1	2	2	2	4	4	4	5	4	30
Panoche Water District	93.25 96.70	4185	2127	0	3192	3572	8124	7678	7939	11153	11303	8054	2106	69433
Eagle Field Water District	93.27 94.47	107	0	0	97	481	328	147	1010	562	766	927	485	4910
Oro Loma Water District	95.50 96.62	75	0	0	0	0	0	652	1182	1250	1240	1213	125	5737
West Side Golf Club	95.95	19	9	6	4	5	8	12	20	25	24	28	22	175
Mercy Springs Water District	97.70 99.81	47	0	0	0	0	0	800	2215	2274	2323	2199	244	10102
Panoche Water District, Municipal and Industrial	100.84	1	1	0	1	1	1	1	1	1	1	1	1	11
Widren Water District	102.03	0	0	0	0	0	0	203	331	176	168	186	15	1074
Broadview Water District	102.95	264	1222	0	1989	632	3228	1252	1110	3040	2586	1228	308	16851
Firebaugh Canal Company	109.45	0	0	0	301	196	0	1238	5877	6796	7472	7148	262	29299
State Fish and Game Salmon Run		0	0	0	0	0	0	0	0	0	0	0	0	0
San Luis Drain	111.03	162	48	0	71	12	12	176	92	121	123	92	84	993
Total		23258	6159	6	10455	14396	23066	48765	89781	97708	99510	86791	32174	532069
Mendota Pool														
Net Deliveries DMC to Mendota Pool		77728	16778	0	33924	46653	61002	98614	133446	158444	170055	161379	102037	1060060
Net Deliveries DMC to O'Neill Forebay		115470	-14248	0	109578	176715	150437	106634	21507	-9945	24619	42949	88821	812537
Madera Canal														
Buchanan Dam		0	0	34	0	0	0	0	0	0	0	0	0	34
Hidden Dam		0	0	81	0	0	0	0	0	0	0	0	0	81
Madera Irrigation District	6.10 32.2	0	0	0	0	6900	12546	18078	33628	43605	46880	27233	18	188886
Adobe Ranch	20.6	85	60	56	0	0	0	0	0	0	89	71	80	441
Chowchilla Water District	35.9	1002	0	0	0	1400	3316	6815	23618	28073	28251	24336	12456	129867
Total		1087	60	171	0	8300	15862	24893	57246	72278	15220	51640	12554	319311
Millerton Lake														
Fresno County Water Works #18		8	4	2	2	4	5	7	14	19	20	18	13	117
County of Madera		3	4	1	2	1	2	3	3	3	3	2	2	24
Total		11	8	3	4	5	7	10	17	22	23	20	15	141

TABLE B-6 (Cont.)
DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
 October 1974 through September 1975

WATER USER	MILE POST FROM CANAL HEAD FROM TO	MONTHLY DELIVERIES IN ACRE- FEET												TOTAL
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	

Data furnished by U. S. Bureau of Reclamation. Acre-foot values are published as received and not rounded to the criteria used by the Department of Water Resources. Deliveries do not include operational spill.

a Includes construction water for Hidden and Buchanan Dams.

TABLE B-7

DELIVERIES FROM CALIFORNIA AQUEDUCT^a
October 1974 through September 1975

WATER USER	IN ACRE- FEET												TOTAL
	OCT.	NOV.	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.	
Delta Pumping Plant (Inflow to California Aqueduct)	62156	110990	170760	166859	135353	136998	117508	93428	12292	16495	253545	233444	1509820
	North San Joaquin Division												
South Bay Pumping Plant	8055	8497	9378	9533	10177	3500	4260	11174	12506	14589	13860	9631	115160
Oak Flat Water District	60	81	21	49	79	11	767	1803	1387	1496	1209	303	7266
Tracy Golf & Country Club	6	0	0	0	0	0	0	0	0	0	0	0	6
Total	8121	8578	9399	9582	10256	3511	5027	12977	13893	16085	15069	9934	122432
California Aqueduct at Check 12 (Inflow to San Luis Field Division)	13261	102736	161144	157217	124969	133010	112399	79502	211	700	233971	223154	1382274
	D'Neill Forebay ^b												
San Luis Water District	236	99	25	300	361	607	1073	1396	1332	1324	971	375	8099
	San Luis Division ^b												
San Luis Water District	179	498	974	1238	435	308	814	1257	1796	2719	1597	645	12392
Panoche Water District	410	733	1652	4662	4406	5854	3841	2741	4493	7658	6052	1799	44301
Westlands Water District ^C	27320	29071	50015	122724	113015	114657	111688	118062	173549	174146	148907	51093	1234247
City of Huron	49	0	0	14	25	30	31	52	77	83	72	62	495
Avenal Community Service District	41	27	19	28	21	24	27	64	79	85	85	71	571
Total	27929	30329	52660	128666	117902	120873	116401	122176	179996	184691	156713	53675	1292006
	South San Joaquin Division												
Tulare Lake Basin Water Storage District	11615	12920	22946	30308	11810	10139	20074	7972	3481	18671	25258	16088	201202
Empire Westside Irrigation District	101	649	491	663	511	573	586	336	583	767	975	293	6528
Kings County	165	0	165	175	175	175	25	0	175	175	175	175	1580
Dudley Ridge Water District	3069	2539	2166	2886	5373	7820	8143	7979	10074	12430	12454	5421	80356
Hacienda Water District	1794	0	0	588	419	623	1400	1441	500	487	800	800	8952
Kern County Water Agency	11914	11498	12075	30791	44683	61500	47457	69049	102555	117853	118138	43174	670687
Boswell Farms ^d	0	0	0	0	0	0	0	0	0	0	0	0	0
Buena Vista Water Storage District ^d	0	0	0	1465	2062	410	410	370	480	500	500	200	6397
USBR - Fish and Wildlife	0	0	0	0	0	0	0	0	0	0	0	0	2222
Total	38658	27606	37845	66876	67033	81240	78195	87147	11848	150863	156301	68295	977924
	Coastal Branch												
Devil's Den Water District	300	0	925	1690	2340	2478	1103	946	980	2819	2596	694	16871
Kern County Water Agency	1732	2178	1103	5292	8692	9434	10954	15173	17234	21785	19873	5213	119073
Green Valley Water District	0	0	0	0	0	0	0	404	558	609	646	0	2217
Total	2032	2598	2028	6982	11022	11912	12355	16523	18772	25213	23115	5907	138161

Data furnished by the Division of Operations and Maintenance.

a. Entitlement and Surplus water have been combined in this table and do not include operational losses.

c. Deliveries made by U. S. Bureau of Reclamation.

d. Includes construction water and delivery to City of Coalinga.

e. Repayment of Preconsolidation water.

TABLE B-8

IMPORTS AND EXPORTS

October 1974 through September 1975

WATER USER	IN ACRE FEET												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY.	JUNE.	JULY.	AUG.	SEPT.	
Imports from Delta													
California Aqueduct (a)	54035	102412	161361	157277	125097	133487	112481	80451	(b) 0	410	238476	223514	1988997
Delta-Mendota Canal	211641	0	627	165228	232299	231177	250702	242842	237787	283595	276087	216442	234842
Total Imports	255676	102412	161988	322505	357396	364664	363183	323291	237573	284005	145611	439956	1337424
Exports													
City and County of San Francisco (c)	22945	16723	14865	15846	14314	21211	18448	19055	21747	24615	22322	21564	233654
A. D. Edmonston Pumping Plant (d)	0	23052	73147	63310	54067	61341	13756	11365	3643	40660	69902	57614	49027
Total Exports	22945	39775	88012	79156	68381	82551	32204	37420	48190	85275	92222	79224	282681

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco. Data for California Aqueduct furnished by Department of Water Resources, Division of Operations and Maintenance. Acre-feet values are published as received and not rounded to the criteria normally used by the Department of Water Resources.

(a) Water pumped at Delta Pumping Plant less deliveries to South Bay Aqueduct, Oak Flat Water District.

(b) Water pumped by South Bay Aqueduct exceeds amount pumped by Delta Pumping Plant. Assumed excess water taken from Aqueduct Storage.

(c) Exports from Tuolumne River.

(d) Deliveries to Southern California.

DAILY MEAN GAGE HEIGHTS

Presented in Table B-9 are records of daily mean gage heights for key stations on major streams in the San Joaquin Valley for the 1974-75 water year.

At the bottom of the stage tables are shown the major river crests occurring for the 1974-75 water year. The table also shows the location of the station, maximum gage height of record, period of record, and datum of gage. The elevation of water surface at the gaging station is obtained by adding the gage height reading to the elevation of the gage datum presented in each table. Gage height for stage tables is computed from recorder charts and is reported to one-hundredth of a foot.

TABLE B-9

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00	USCGS

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.18	2.06	1.81	1.90	1.96	1.93	2.09	2.50	2.48	2.53	2.61	2.27	1
2	2.15	2.06	1.81	1.90	1.99	1.93	2.09	2.52	2.49	2.52	2.54	2.26	2
3	2.12	2.06	1.84	1.90	1.96	1.93	2.10	2.51	2.50	2.52	2.54	2.26	3
4	2.07	2.03	1.84	1.91	1.94	1.93	2.10	2.51	2.52	2.51	2.53	2.26	4
5	2.08	1.98	1.83	1.91	1.97	1.94	2.17	2.51	2.52	2.52	2.53	2.26	5
6	2.08	1.98	1.82	1.92	1.99	2.04	2.27	2.50	2.60	2.53	2.52	2.26	6
7	2.08	1.98	1.83	1.92	2.09	1.99	2.16	2.49	2.60	2.52	2.51	2.25	7
8	2.08	1.91	1.84	1.95	2.09	1.99	2.13	2.50	2.59	2.51	2.51	2.25	8
9	2.07	1.75	1.84	1.93	2.09	1.98	2.11	2.50	2.60	2.52	2.51	2.25	9
10	2.08	1.74	1.84	1.92	2.19	1.99	2.09	2.50	2.57	2.50	2.50	2.26	10
11	2.07	1.74	1.84	1.92	2.11	2.06	2.09	2.50	2.56	2.46	2.49	2.24	11
12	2.07	1.74	1.85	1.92	2.10	2.02	2.08	2.50	2.57	2.46	2.49	2.23	12
13	2.07	1.74	1.86	1.92	2.11	2.07	2.06	2.51	2.57	2.45	2.49	2.23	13
14	2.07	1.75	1.86	1.92	2.09	2.22	2.06	2.52	2.58	2.45	2.43	2.23	14
15	2.06	1.76	1.87	1.92	1.99	2.10	2.09	2.52	2.56	2.45	2.36	2.19	15
16	2.06	1.77	1.87	1.92	1.95	2.12	2.09	2.52	2.53	2.45	2.35	2.16	16
17	2.06	1.77	1.87	1.92	1.93	2.12	2.09	2.54	2.54	2.45	2.35	2.16	17
18	2.06	1.76	1.86	1.93	1.92	2.08	2.08	2.54	2.54	2.44	2.35	2.17	18
19	2.06	1.76	1.86	1.93	1.93	2.08	2.09	2.53	2.55	2.44	2.35	2.17	19
20	2.07	1.76	1.87	1.93	1.94	2.07	2.05	2.53	2.54	2.44	2.34	2.17	20
21	2.07	1.78	1.87	1.93	1.94	2.08	2.08	2.52	2.54	2.43	2.33	2.17	21
22	2.09	1.79	1.87	1.93	1.93	2.43	2.03	2.48	2.54	2.44	2.32	2.17	22
23	2.11	1.78	1.87	1.93	1.93	2.23	2.30	2.47	2.54	2.43	2.28	2.17	23
24	2.12	1.78	1.88	1.93	1.94	2.15	2.62	2.47	2.54	2.50	2.29	2.17	24
25	2.12	1.78	1.88	1.93	1.95	2.23	2.62	2.46	2.54	2.60	2.30	2.17	25
26	2.13	1.79	1.89	1.94	1.95	2.24	2.44	2.45	2.54	2.60	2.30	2.16	26
27	2.13	1.79	1.89	1.94	1.95	2.17	2.30	2.45	2.54	2.64	2.30	2.19	27
28	2.15	1.79	1.90	1.94	1.95	2.15	2.29	2.46	2.54	2.69	2.30	2.24	28
29	2.14	1.80	1.90	1.95	1.95	2.13	2.38	2.46	2.54	2.69	2.31	2.24	29
30	2.14	1.80	1.90	1.95	1.95	2.12	2.49	2.46	2.53	2.68	2.30	2.24	30
31	2.11		1.90	1.95		2.11		2.47		2.68	2.28		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,000 ^a	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS
			12,400 ^a	11.69	6-6-69						
Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.											
^a Maximum flows since construction of Friant Dam in 1944.											

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	62.18	61.45	61.10	61.20	61.42	62.47	64.48	62.45	62.34	61.23	61.08	62.01	1
2	61.97	62.81	61.09	61.17	62.18	62.66	63.76	62.33	62.26	61.21	61.06	62.01	2
3	62.35	62.90	61.40	61.17	65.66	62.56	63.57	62.30	62.29	61.13	60.99	62.11	3
4	62.74	62.70	62.81	61.17	69.71	62.40	63.62	62.12	61.96	61.14	61.03	62.36	4
5	62.47	62.47	63.98	61.19	70.05	62.20	63.98	62.09	61.75	61.07	61.02	62.25	5
6	62.25	61.71	64.04	61.18	70.23	62.62	64.24	62.10	61.43	61.13	61.13	62.02	6
7	62.00	61.39	63.33	61.17	69.83	62.91	64.85	61.69	61.21	61.23	61.15	61.56	7
8	61.79	61.37	62.80	61.22	68.92	63.61	65.14	61.49	61.22	61.27	61.16	61.44	8
9	61.61	61.33	62.37	61.39	68.07	64.89	65.91	61.46	61.22	61.29	61.15	61.48	9
10	61.64	61.21	61.75	62.83	67.59	65.55	66.33	61.38	61.25	61.26	61.20	61.89	10
11	61.62	61.32	61.54	63.26	67.96	66.45	65.96	61.33	61.28	61.24	61.26	62.18	11
12	61.62	61.24	61.49	62.95	69.16	66.16	65.25	61.34	61.37	61.23	61.32	62.56	12
13	61.69	61.12	61.47	62.53	69.03	65.71	64.70	61.34	61.27	61.19	61.29	62.76	13
14	61.42	61.26	61.48	62.20	65.36	65.66	64.26	61.30	61.20	61.10	61.26	62.95	14
15	61.42	61.33	61.36	61.97	68.46	66.41	63.29	61.35	61.19	61.12	61.40	63.16	15
16	61.35	61.30	61.36	61.81	68.25	66.22	63.08	61.42	61.23	61.28	61.60	63.16	16
17	61.24	61.27	61.53	61.72	67.45	66.44	63.21	61.70	61.20	61.78	61.89	62.92	17
18	61.03	61.25	61.53	61.63	66.55	66.68	63.65	61.79	61.34	61.80	61.81	62.82	18
19	60.93	61.23	61.48	61.56	65.78	66.39	64.01	61.99	61.23	61.63	61.46	62.66	19
20	60.97	61.20	61.42	61.72	65.09	66.07	63.86	62.18	61.21	61.47	62.33	62.60	20
21	60.99	61.18	61.44	61.84	64.54	65.47	63.79	61.95	61.15	61.57	62.92	62.52	21
22	60.95	61.18	61.27	61.78	64.12	65.05	63.48	61.96	61.09	61.51	63.04	62.52	22
23	60.90	61.19	61.35	61.83	63.35	66.22	62.82	62.03	61.09	61.38	63.00	62.51	23
24	60.92	61.05	61.23	61.85	62.92	67.61	62.54	62.03	61.07	61.19	63.10	62.52	24
25	60.98	61.13	61.16	61.81	62.53	67.78	62.52	62.27	61.04	61.08	63.15	62.54	25
26	61.02	61.14	61.14	61.77	62.02	67.33	63.42	62.50	61.06	61.01	62.83	62.61	26
27	60.97	61.12	61.11	61.74	62.09	67.76	63.44	62.37	61.03	60.98	62.29	62.46	27
28	61.09	61.13	61.08	61.69	62.27	68.20	63.38	61.90	61.33	60.98	61.95	62.50	28
29	61.19	61.13	61.16	61.51		67.48	63.47	61.94	61.26	60.98	61.86	62.76	29
30	61.24	61.12	61.21	61.33		66.32	63.26	61.75	61.06	61.01	61.85	62.31	30
31	61.18		61.23	61.33		65.40		62.10		61.06	61.96		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
— ESTIMATED	2-06-75	0515	70.34									
NR — NO RECORD												
NE — NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions. Drainage area is 7,388 square miles.											

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56.31	55.70	55.32	55.24	55.61	56.75	58.99	56.77	55.95	55.65	55.07	56.56	1
2	56.14	56.22	55.23	55.22	55.95	56.96	58.23	56.85	55.98	55.70	55.10	56.51	2
3	56.21	56.48	55.32	55.20	57.27	56.88	57.44	56.44	56.08	55.62	55.23	56.53	3
4	56.39	56.38	56.09	55.09	61.04	56.75	57.71	56.28	55.94	55.59	55.25	56.54	4
5	56.26	56.28	56.95	55.01	62.24	56.69	57.94	56.27	55.76	55.62	55.28	56.39	5
6	56.04	56.06	57.28	55.04	62.57	56.87	58.16	56.31	55.56	55.66	55.35	56.23	6
7	55.84	55.75	57.06	55.03	62.57	57.19	58.62	56.09	55.45	55.68	55.37	56.06	7
8	55.64	55.80	56.68	55.07	62.17	57.79	58.99	55.89	55.47	55.73	55.40	55.86	8
9	55.56	55.76	56.40	55.07	61.52	58.37	59.46	55.75	55.44	55.60	55.48	55.83	9
10	55.53	55.69	56.11	55.56	60.95	59.00	60.04	55.78	55.45	55.46	55.50	56.10	10
11	55.52	55.71	55.98	56.17	60.88	59.76	60.01	55.79	55.54	55.42	55.37	56.29	11
12	55.45	55.70	55.96	56.16	61.62	59.87	59.50	55.82	55.71	55.26	55.50	56.44	12
13	55.50	55.59	55.96	55.93	62.05	59.60	58.91	55.96	56.04	55.25	55.53	56.49	13
14	55.46	55.67	55.98	55.75	61.77	59.28	58.58	55.92	56.14	55.41	55.42	56.59	14
15	55.41	55.78	55.95	55.63	61.66	59.80	57.98	55.91	55.91	55.47	55.54	56.71	15
16	55.29	55.78	55.89	55.51	61.60	60.00	57.54	55.95	56.10	55.50	55.60	56.82	16
17	55.08	55.76	55.90	55.45	61.12	59.98	57.39	56.09	56.42	55.82	55.68	56.62	17
18	54.90	55.74	55.82	55.38	60.36	60.31	57.56	56.12	56.24	56.03	55.79	56.39	18
19	54.86	55.78	55.68	55.31	59.64	60.16	57.82	56.25	55.60	55.93	56.04	56.35	19
20	54.85	55.85	55.60	55.43	58.95	59.92	57.81	56.33	55.39	55.71	56.61	56.40	20
21	54.98	55.73	55.54	55.66	58.43	59.48	57.64	56.20	55.42	55.67	57.12	56.42	21
22	55.04	55.67	55.46	55.82	58.05	59.00	57.54	56.09	55.55	55.74	57.18	56.44	22
23	55.00	55.67	55.40	55.82	57.66	59.33	57.11	56.26	55.63	55.81	57.15	56.41	23
24	54.96	55.61	55.38	55.89	57.30	60.59	56.74	56.28	55.65	55.72	57.16	56.37	24
25	55.01	55.63	55.38	55.91	57.09	61.17	56.70	56.24	55.50	55.48	57.19	56.26	25
26	55.08	55.62	55.37	55.85	56.67	60.97	57.06	56.30	55.54	55.31	57.23	56.20	26
27	55.18	55.61	55.35	55.82	56.51	61.06	57.33	56.38	55.54	55.28	57.06	56.22	27
28	55.28	55.53	55.35	55.78	56.63	61.45	57.31	56.26	55.62	55.34	56.75	56.16	28
29	55.36	55.49	55.31	55.82		61.33	57.28	56.16	55.67	55.24	56.61	56.41	29
30	55.43	55.44	55.27	55.69		60.58	57.08	55.93	55.69	55.17	56.47	56.51	30
31	55.47		55.27	55.58		59.70		55.81		55.16	56.48		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-06-75	1530	62.63									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS
Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevenson, 6.7 miles upstream from the Merced River. Drainage area is approximately 8,090 square miles.											
a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.											

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.36	7.76	6.02	7.50	7.35	7.52	8.81	6.56	8.28	6.36	6.39	7.03	1
2	6.36	7.77	6.02	7.49	8.29	7.51	8.54	6.62	8.24	6.24	6.46	7.18	2
3	6.36	7.75	6.14	7.52	7.75	7.52	8.21	6.66	8.56	6.28	6.43	7.57	3
4	6.35	7.87	8.10	7.52	7.80	7.54	7.91	6.64	8.60	6.27	6.46	7.77	4
5	6.38	8.00	8.07	7.51	7.99	7.59	7.97	6.73	8.55	6.30	6.58	7.79	5
6	6.41	8.02	8.06	7.52	8.52	7.59	7.88	6.90	6.97	6.36	6.53	7.71	6
7	6.46	8.04	8.06	7.50	8.66	7.64	7.78	6.80	10.15	6.43	6.35	7.63	7
8	6.59	8.03	8.06	7.60	8.63	7.64	8.59	6.70	10.19	6.49	6.40	7.64	8
9	8.26	8.03	8.06	7.53	8.74	7.55	8.98	6.60	10.70	6.51	6.46	7.68	9
10	8.57	8.02	7.98	7.50	8.98	7.60	8.73	6.58	11.57	6.49	6.37	7.70	10
11	8.40	8.01	7.89	7.49	9.70	7.56	8.52	6.58	12.15	6.50	6.46	7.82	11
12	8.24	8.01	7.90	7.51	10.08	7.54	8.51	7.13	12.06	6.46	6.35	7.98	12
13	7.39	8.04	7.88	7.50	10.26	7.76	8.53	7.74	11.80	6.52	6.42	8.09	13
14	6.48	8.05	7.87	7.51	10.00	7.67	8.44	8.19	11.87	6.61	6.37	8.12	14
15	6.52	8.05	7.86	7.51	9.47	7.58	8.36	8.28	12.27	6.64	6.35	8.21	15
16	6.48	8.01	7.78	7.50	9.46	7.66	8.29	8.27	12.11	6.64	6.36	8.28	16
17	6.49	8.01	7.62	7.49	9.08	7.58	8.25	8.26	10.92	6.28	6.38	8.27	17
18	6.44	8.05	7.56	7.49	8.44	7.55	8.48	8.27	9.50	6.31	6.47	8.25	18
19	6.43	8.04	7.52	7.51	8.08	7.55	8.40	8.27	8.41	6.30	6.61	8.27	19
20	6.44	8.04	7.51	7.49	8.03	7.55	8.36	8.28	8.06	6.30	6.59	8.28	20
21	6.43	8.06	7.52	7.49	8.04	7.59	8.26	8.33	8.19	6.32	6.55	8.32	21
22	6.38	8.07	7.51	7.49	8.04	7.98	7.78	8.43	8.21	6.32	6.49	8.40	22
23	6.38	8.08	7.49	7.49	8.03	7.60	7.45	8.53	8.18	6.28	6.46	8.48	23
24	6.38	8.08	7.49	7.44	8.01	8.08	7.30	8.47	8.15	6.26	6.57	8.55	24
25	6.59	8.08	7.50	7.46	8.03	9.16	6.99	8.44	8.10	6.29	6.63	8.59	25
26	7.70	8.04	7.50	7.47	7.84	9.94	6.78	8.45	8.10	6.26	6.55	8.58	26
27	7.76	8.05	7.51	7.49	7.55	9.71	6.75	8.44	7.40	6.22	6.51	8.67	27
28	7.78	8.04	7.52	7.49	7.54	9.71	6.73	8.45	6.73	6.25	6.54	8.84	28
29	7.73	8.07	7.52	7.49	7.45	9.72	6.72	8.42	6.58	6.25	6.68	8.92	29
30	8.10	8.03	7.51	7.45	7.45	9.75	6.65	8.33	6.74	6.24	6.79	8.97	30
31	7.61		7.52	7.29		9.42		8.29		6.24	6.90		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-16-75	0130	12.35									

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT	DATE			FROM	TO	
37 30 06	120 27 03	NEL7 58 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12' USGS
Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by upstream reservoirs and dams. Drainage area is 1,096 square miles. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.										

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.03	NR	12.33	11.76	11.63	11.81	13.85	11.10	12.48	11.20	10.77	11.30	1
2	11.02	NR	12.33	11.74	13.56	11.78	13.04	11.06	12.48	10.94	10.80	11.37	2
3	11.05	NR	12.49	11.74	14.34	11.75	12.88	11.08	12.50	10.86	10.90	11.41	3
4	11.08	12.07	12.62	11.76	12.50	11.77	12.25	11.08	12.90	10.81	10.96	11.96	4
5	11.09	12.25	12.46	11.75	13.49	11.83	12.20	11.08	12.83	10.82	10.95	12.02	5
6	11.08	12.33	12.39	11.76	12.75	11.88	12.26	11.14	12.72	10.81	11.06	12.06	6
7	11.08	12.35	12.37	11.77	13.16	11.94	12.05	11.15	14.21	10.79	11.02	11.99	7
8	11.09	12.38	12.37	11.77	13.21	12.88	12.48	11.03	15.25	10.79	10.92	11.99	8
9	11.24	12.36	12.36	11.86	13.94	12.71	13.43	11.02	15.36	10.84	10.92	12.03	9
10	12.71	12.35	12.37	11.82	14.04	12.03	13.52	10.95	16.83	10.87	10.97	12.02	10
11	13.11	12.34	12.23	11.76	14.29	12.21	12.95	10.92	18.14	10.85	10.90	12.05	11
12	12.78	12.35	12.18	11.76	15.23	11.96	12.86	10.92	18.69	10.89	10.90	12.25	12
13	12.67	12.35	12.19	11.76	15.63	11.91	12.84	11.48	18.19	10.87	10.87	12.40	13
14	11.62	12.37	12.16	11.75	16.59	13.11	12.83	12.01	17.89	10.89	10.88	12.58	14
15	11.12	12.37	12.15	11.75	15.15	12.22	12.72	12.31	18.37	10.91	10.86	12.63	15
16	11.05	12.37	12.14	11.74	14.56	12.05	12.59	12.40	18.76	10.96	10.87	12.79	16
17	11.00	12.34	12.01	11.72	14.48	12.22	12.53	12.41	17.81	11.05	10.90	12.79	17
18	10.99	12.34	11.90	11.71	13.51	11.93	12.60	12.46	15.66	10.82	10.96	12.75	18
19	10.96	12.37	11.84	11.71	12.76	11.86	12.74	12.49	13.74	10.80	11.11	12.76	19
20	10.96	12.36	11.80	11.73	12.53	11.84	12.62	12.48	12.74	10.79	11.17	12.84	20
21	10.96	12.37	11.80	11.71	12.42	11.84	12.61	12.52	12.49	10.81	11.15	12.85	21
22	10.95	12.38	11.80	11.71	12.39	12.96	12.39	12.63	12.55	10.83	11.07	12.97	22
23	10.92	12.40	11.78	11.70	12.35	12.46	11.82	12.77	12.52	10.87	10.98	13.07	23
24	10.92	12.41	11.76	11.70	12.32	12.05	11.69	12.87	12.49	10.78	11.04	13.15	24
25	10.91	12.40	11.76	11.68	12.27	12.91	NR	12.74	12.41	10.77	11.03	13.26	25
26	11.10	12.38	11.76	11.70	12.31	14.99	NR	12.76	12.34	10.77	11.06	13.33	26
27	NR	12.35	11.76	11.70	11.95	14.90	NR	12.77	12.23	10.78	10.98	13.27	27
28	NR	12.37	11.78	11.72	11.83	14.74	NR	12.72	11.42	10.76	10.93	13.47	28
29	NR	12.35	11.77	11.71		14.72	NR	12.69	11.22	10.67	10.96	13.64	29
30	NR	12.39	11.76	11.71		14.75	NR	12.62	11.16	10.77	11.04	13.64	30
31	NR		11.76	11.64		14.72		12.51		10.77	11.18		31

CREST STAGES

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-12-75	1900	18.80									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	* GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950 1962	1962	96.24 86.23	USCGS USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,224 square miles.

a Reflects present datum.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	49.45	50.39	50.09	49.66	49.99	50.71	53.99	50.41	50.56	49.84	NR	49.84	1
2	49.41	50.44	50.06	49.63	50.14	50.74	53.04	50.26	50.64	49.78	NR	49.91	2
3	49.51	50.56	50.18	49.60	51.78	50.68	52.30	50.14	50.63	49.62	NR	49.95	3
4	49.61	50.53	50.67	49.57	53.62	50.60	52.04	50.03	50.61	49.51	NR	49.96	4
5	49.53	50.43	51.20	49.52	54.63	50.56	51.80	49.94	50.72	49.50	49.09	50.11	5
6	49.32	50.46	51.37	49.51	55.41	50.71	51.76	49.91	50.69	49.52	49.07	50.14	6
7	49.22	50.39	51.31	49.51	55.57	50.96	51.96	49.91	50.59	49.45	49.07	50.05	7
8	49.13	50.46	51.12	49.52	55.57	51.38	52.16	49.78	51.53	49.44	49.10	50.03	8
9	49.10	50.48	50.95	49.54	55.08	52.15	52.55	49.65	52.26	49.36	49.07	50.08	9
10	49.21	50.45	50.79	49.68	54.83	52.35	53.30	49.58	52.57	49.28	49.16	50.12	10
11	49.87	50.44	50.73	49.93	54.55	52.42	53.57	49.55	53.61	49.21	49.14	50.27	11
12	50.23	50.40	50.62	49.93	55.00	52.66	53.24	49.56	54.60	49.15	49.10	50.42	12
13	50.26	50.37	50.59	49.83	56.04	52.43	52.81	49.61	55.06	49.12	49.13	50.53	13
14	50.29	50.40	50.60	49.78	56.50	52.22	52.50	49.77	NR	49.24	49.11	50.60	14
15	49.78	50.48	50.06	49.75	56.65	52.85	52.12	50.01	53.79	49.25	49.10	50.81	15
16	49.39	50.52	50.53	49.73	56.12	52.90	51.63	50.27	55.16	49.33	49.16	50.94	16
17	49.16	50.53	50.40	49.72	55.50	52.79	51.44	50.56	55.39	49.42	49.28	50.95	17
18	48.98	50.50	50.25	49.69	53.63	52.95	51.49	50.63	54.97	49.51	49.45	50.77	18
19	48.92	50.48	50.06	49.69	53.72	52.84	51.75	50.73	53.38	49.38	49.59	50.78	19
20	48.90	50.50	49.95	49.98	52.83	52.53	51.97	50.76	51.85	49.37	49.71	50.76	20
21	48.95	50.43	49.87	50.11	52.27	52.22	51.88	50.77	51.04	49.38	50.07	50.83	21
22	49.03	50.36	49.81	50.22	51.89	51.96	51.73	50.76	50.90	49.29	50.21	50.99	22
23	48.97	50.34	49.76	50.25	51.63	52.43	51.43	50.78	50.95	49.21	50.18	51.00	23
24	48.94	50.32	49.73	50.26	51.39	51.89	50.90	50.84	50.76	49.07	50.12	51.02	24
25	48.92	50.31	49.70	50.26	51.25	53.36	50.79	50.90	50.71	48.92	50.27	51.12	25
26	48.94	50.24	49.69	50.20	51.08	53.95	50.75	50.99	50.62	48.86	50.21	51.12	26
27	49.11	50.19	49.69	50.15	50.95	54.84	50.82	51.05	50.53	48.94	50.00	51.17	27
28	49.64	50.17	49.71	50.07	50.78	55.28	50.78	50.95	50.43	48.82	49.88	51.16	28
29	49.94	50.15	49.73	50.10	55.42	50.68	50.68	50.78	50.07	NR	49.69	51.41	29
30	50.05	50.10	49.70	50.06	55.15	50.57	50.72	49.88	NR	NR	49.66	51.59	30
31	50.06		49.69	50.00	54.59			50.60		NR	49.65		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-15-75	0200	56.74									
E — ESTIMATED											
NR — NO RECORD											
NE — NO FLOW											

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	34700a	65.90	2-26-69	APR 12-DATE		1912	1959	47.24 47.31 0.00	USCGS USCGS USCGS
Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,520 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.											
a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (34,700 cfs) includes flow in Merced River Slough.											

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33.82	34.30	33.95	33.63	33.90	34.70	38.48	34.15	34.43	33.67	32.95	33.68	1
2	33.86	34.43	33.93	33.60	33.96	34.69	37.69	33.95	34.64	33.67	32.88	33.73	2
3	33.91	34.50	34.06	33.58	34.44	34.61	36.83	33.82	34.53	33.58	32.96	33.79	3
4	33.99	34.55	34.37	33.56	36.19	34.48	36.34	33.93	34.47	33.51	33.03	33.79	4
5	33.96	34.47	34.80	33.53	37.37	34.55	36.08	33.82	34.50	33.55	33.02	33.92	5
6	33.73	34.43	35.02	33.51	38.38	34.85	35.96	33.68	34.41	33.55	32.98	33.94	6
7	33.78	34.46	35.08	33.52	38.91	35.20	36.05	33.79	34.20	33.46	33.02	33.96	7
8	33.78	34.51	34.96	33.51	39.17	35.68	36.33	33.63	34.69	33.33	33.04	33.87	8
9	33.65	34.52	34.81	33.51	39.09	36.35	36.45	33.51	35.51	33.33	33.00	33.93	9
10	33.56	34.51	34.66	33.54	38.70	36.63	36.99	33.44	35.89	33.27	33.08	33.95	10
11	33.82	34.49	34.56	33.71	38.65	36.45	37.39	33.51	36.53	33.15	33.16	34.16	11
12	34.21	34.49	34.49	33.80	38.48	36.59	37.44	33.63	37.58	33.07	33.08	34.33	12
13	34.33	34.43	34.41	33.77	39.16	36.66	37.12	33.51	38.34	33.06	32.96	34.39	13
14	34.32	34.38	34.41	33.71	40.02	36.65	36.78	33.59	38.72	33.16	32.96	34.58	14
15	34.15	34.41	34.41	33.70	40.46	36.71	36.46	33.82	38.78	33.23	33.01	34.85	15
16	33.80	34.41	34.36	33.68	40.38	36.92	35.87	34.15	38.89	33.37	33.03	34.83	16
17	33.62	34.40	34.30	33.66	39.87	36.87	35.53	34.39	39.16	33.40	33.29	34.87	17
18	33.47	34.39	34.22	33.64	39.27	36.78E	35.32	34.54	39.23	33.45	33.56	34.81	18
19	33.40	34.36	34.08	33.61	38.43	36.65E	35.44	34.71	38.35	33.42	33.75	34.61	19
20	33.36	34.36	33.95	33.70	37.40	36.54E	35.69	34.70	36.76	33.37	33.68	34.58	20
21	33.33	34.33	33.86	33.87	36.62	36.42E	35.74	34.74	35.52	33.11	33.99	34.68	21
22	33.41	34.26	33.78	34.00	36.07	36.29	35.54	34.87	35.16	33.22	34.14	34.87	22
23	33.44	34.21	33.73	34.06	35.77	36.42	35.41	34.81	35.08	33.14	34.07	34.92	23
24	33.40	34.16	33.70	34.11	35.51	36.86	34.99	34.76	34.84	33.07	34.00	34.94	24
25	33.35	34.16	33.68	34.12	35.32	37.13	34.74	34.79	34.82	32.96	34.00	35.07	25
26	33.31	34.13	33.66	34.07	35.13	37.60	34.69	34.77	34.67	32.87	33.89	35.04	26
27	33.35	34.07	33.66	34.03	34.97	38.21	34.67	34.90	34.46	32.82	33.78	34.99	27
28	33.65	34.04	33.67	33.97	34.85	38.98	34.66	34.69	34.31	32.86	33.67	35.15	28
29	33.93	34.02	33.69	33.95	33.97	39.32	34.42	34.57	34.16	32.95	33.55	35.37	29
30	34.06	33.98	33.66	33.97	33.97	39.45	34.25	34.51	33.90	32.99	33.57	35.58	30
31	34.13		33.64	33.91		39.14		34.40		32.97	33.72		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-15-75	1615	40.52									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE NT.	DATE			FROM	TO		
37 29 40	121 04 50	SW15 5S 8E	9600b	54.0 50.47a 46.12	6-13-38 6-13-38 2-16-73	OCT 69-DATE	APR 38-SEP 60	1938 1959 1959	1959	0.00 0.00 3.53	USED USCGS USED
Station located on the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Drainage area is 9,758 square miles.											
a Reflects present datum. b Maximum discharge since station was rated in October 1969.											

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	72.40	73.71	71.68	72.38	73.06	71.34	70.86	70.22	70.36	69.67	69.58	69.67	1
2	71.93	74.04	71.86	71.99	72.06	71.37	70.71	70.19	69.82	69.66	69.77	69.66	2
3	71.91	73.90	72.24	73.60	71.70	71.56	70.29	70.24	69.74	69.66	69.77	69.95	3
4	71.69	73.79	71.96	73.32	72.76	72.25	70.25	70.26	69.74	69.67	69.69	70.54	4
5	71.27	72.31	72.16	72.44	72.64	72.24	70.54	70.26	70.19	69.67	70.14	71.20	5
6	71.19	71.72	72.21	72.08	72.56	72.48	70.42	70.26	70.29	69.70	70.10	71.28	6
7	71.14	71.70	72.18	73.57	72.53	72.41	70.34	70.28	69.96	69.63	69.72	71.33	7
8	71.17	71.69	72.18	73.40	72.11	72.07	70.81	70.39	69.82	69.69	69.65	71.01	8
9	71.11	71.69	72.14	73.50	71.67	71.43	70.71	70.29	69.79	69.80	69.87	70.94	9
10	71.05	71.70	72.18	73.55	71.57	71.73	70.55	70.29	70.27	69.83	69.80	71.20	10
11	71.34	71.70	72.18	73.21	72.41	72.52	70.31	70.29	70.44	70.10	69.69	70.94	11
12	71.27	71.67	72.21	72.30	72.35	71.27	70.23	70.28	70.02	69.98	69.98	71.35	12
13	70.89	71.67	72.18	71.96	72.58	71.04	70.22	70.41	69.85	69.71	69.80	71.29	13
14	70.27	71.67	72.19	73.52	72.56	71.37	70.22	70.64	70.24	69.64	69.69	70.92	14
15	70.60	71.75	72.18	73.55	72.19	71.12	70.22	70.30	69.85	69.79	69.65	70.87	15
16	72.59	71.79	72.08	73.58	71.55	71.14	70.21	70.30	69.77	69.70	69.67	70.85	16
17	72.57	71.80	71.63	73.61	70.99	71.13	70.21	70.31	69.73	69.65	69.68	70.84	17
18	72.58	71.80	71.56	73.31	71.52	71.31	70.22	70.32	69.73	69.78	69.93	70.99	18
19	72.48	71.77	71.56	72.39	72.49	72.23	70.22	70.31	69.75	69.67	70.20	71.32	19
20	72.73	71.77	71.77	71.99	72.56	72.52	70.23	70.33	69.74	69.63	69.82	70.93	20
21	72.81	71.78	71.95	73.62	72.62	72.42	70.22	70.31	69.73	69.62	69.66	70.85	21
22	73.49	71.78	71.42	73.58	72.28	72.26	70.22	70.32	69.74	69.76	69.81	70.87	22
23	73.58	71.78	71.37	73.62	71.52	71.43	70.22	70.32	69.75	70.69	69.71	71.28	23
24	73.57	71.79	72.12	73.52	71.58	71.59	70.22	70.47	69.72	70.41	69.68	71.39	24
25	73.57	71.79	72.35	73.06	72.33	72.17	70.22	70.34	69.76	70.26	69.67	71.62	25
26	73.48	71.77	71.98	72.11	71.94	71.19	70.24	70.33	69.75	70.31	69.86	71.64	26
27	73.37	71.65	73.35	71.96	71.18	71.01	70.25	70.32	69.74	69.84	69.71	71.43	27
28	73.45	71.59	73.15	73.56	71.03	70.95	70.22	70.61	69.74	69.71	69.68	71.04	28
29	73.57	71.48	72.44	73.58		70.89	70.23	70.79	69.74	69.76	69.66	70.85	29
30	73.42	71.67	72.06	73.59		70.88	70.23	70.66	69.70	69.68	69.66	70.99	30
31	73.35		73.31	73.61		70.88		70.74		69.63	69.68		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-	7-75	0315	74.95								
2-	1-75	0330	74.92								

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36		1932		-1.13	USCGS
						JAN 37-MAR 37					
						JUL 37-FEB 38					
						JUL 38-DEC 38					
						MAR 39-DATE					

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. Drainage area is 1,655 square miles. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.53	68.78	68.85	67.60	67.59	67.84	68.36	68.39	68.32	68.91	68.36	68.49	1
2	68.51	68.69	69.11	67.60	67.59	67.85	68.25	68.51	68.38	68.42	68.41	68.46	2
3	68.59	68.59	69.34	67.63	70.46	68.02	68.31	68.56	68.37	68.46	68.36	68.44	3
4	68.50	68.55	69.21	67.65	70.31	68.31	68.43	68.61	68.36	68.36	68.38	68.46	4
5	68.51	68.54	69.91	67.64	70.36	68.35	68.34	68.59	68.30	68.34	68.37	68.67	5
6	68.52	68.56	69.67	67.70	69.21	68.34	69.43	68.54	68.31	68.39	68.29	68.58	6
7	68.50	68.57	69.56	67.74	68.52	68.23	70.18	68.61	68.39	68.92	68.26	68.53	7
8	68.47	68.93	69.50	67.71	68.45	68.67	69.65	68.43	68.28	68.66	68.33	68.54	8
9	68.43	69.55	69.47	67.69	68.83	70.25	69.43	68.43	68.32	68.35	68.35	68.56	9
10	68.47	69.54	69.47	67.75	72.82	69.28	69.11	68.35	68.32	68.29	68.33	68.56	10
11	68.54	69.52	69.64	67.92	70.16	69.14	68.77	68.49	68.39	68.34	68.34	68.51	11
12	68.51	69.51	69.65	67.79	68.82	69.07	68.65	68.43	68.40	68.39	68.44	68.57	12
13	68.56	69.50	69.61	67.71	68.91	68.89	68.58	68.38	68.45	68.43	68.36	68.51	13
14	68.49	69.33	69.58	67.67	73.64	72.51	68.49	68.37	68.31	68.32	68.31	68.33	14
15	68.41	68.90	69.54	67.68	70.19	71.50	68.40	68.21	68.24	68.32	68.28	68.43	15
16	68.69	68.91	69.50	67.65	68.76	69.77	68.34	68.36	68.53	68.33	68.40	68.51	16
17	68.55	68.86	69.49	67.60	68.44	72.58	68.42	68.34	69.12	68.30	68.36	68.51	17
18	68.49	68.96	69.46	67.59	68.32	69.47	68.51	68.26	66.32	68.35	68.47	68.47	18
19	68.46	69.27	69.47	67.58	68.23	68.79	68.47	68.21	66.40	68.37	68.89	68.57	19
20	68.40	67.99	69.46	67.57	66.16	68.53	68.46	68.33	68.49	68.43	68.77	68.56	20
21	68.48	67.73	68.47	67.57	68.12	68.41	68.54	68.35	66.49	68.45	68.69	68.67	21
22	69.92	67.69	67.78	67.57	68.18	70.29	68.53	68.31	68.54	68.70	68.63	68.64	22
23	70.68	67.67	67.73	67.57	68.12	73.00	68.52	68.37	68.90	68.60	68.51	68.61	23
24	70.73	67.68	67.80	67.56	68.06	69.79	68.47	68.38	69.03	68.35	68.51	68.45	24
25	70.69	67.67	67.65	67.57	68.01	69.50	68.44	68.37	68.37	68.31	68.61	68.57	25
26	69.49	67.67	67.62	67.56	68.00	71.46	68.61	68.33	68.40	68.27	68.64	66.54	26
27	69.14	67.67	67.62	67.55	67.96	69.59	68.66	68.24	68.44	68.38	68.64	68.65	27
28	69.09	67.67	67.64	67.56	67.90	68.79	68.50	68.23	68.39	68.38	68.43	68.59	28
29	68.96	67.66	67.61	67.56	68.54	68.57	68.27	68.32	68.38	68.38	68.42	68.54	29
30	68.65	67.71	67.61	67.55	68.45	68.46	68.30	66.73	68.38	68.41	68.54	68.54	30
31	68.67		67.60	67.55	68.41		68.30		68.34	68.34	68.48		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
3-23-75	0030	76.05									

E - ESTIMATED

NR - NO RECORD

NE - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1 4 SEC. T. & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE			1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941 records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream impairments.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	B04120	TUOLUMNE RIVER AT MCKESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	42.76	44.63	NR	43.49	44.90	41.77	41.76	41.30	NR	41.04	40.84	40.90	1
2	42.34	45.52	NR	41.95	43.13	42.04	41.70	41.31	NR	40.92	40.87	40.90	2
3	42.27	45.69	NR	43.77	42.22	41.77	41.56	41.32	NR	40.96	40.95	40.90	3
4	42.22	45.49	NR	44.33	43.67	42.31	41.43	41.35	NR	40.95	40.96	41.20	4
5	42.06	44.56	NR	43.62	43.75	NR	41.48	41.35	NR	40.99	40.99	41.48	5
6	42.00	42.64	NR	42.01	43.46	NR	41.66	41.35	40.46	41.07	41.14	41.67	6
7	41.99	42.35	NR	44.05	43.21	NR	41.73	41.36	41.15	41.10	41.04	41.75	7
8	41.98	42.34	NR	44.24	43.02	NR	41.95	41.38	41.04	41.10	40.89	41.66	8
9	41.93	42.41	41.78	44.20	42.37	NR	42.06	41.39	40.98	40.99	40.91	41.59	9
10	41.82	42.41	42.80	44.45	42.52	NR	41.91	41.31	41.06	40.97	40.99	41.65	10
11	41.87	42.40	42.83	44.48	43.13	NR	41.69	41.36	41.31	41.04	40.97	41.62	11
12	41.92	42.38	42.87	43.47	42.91	NR	41.51	41.35	41.19	41.10	40.93	41.71	12
13	41.83	42.39	42.87	41.99	43.15	NR	41.46	41.37	41.07	41.06	41.01	41.76	13
14	41.66	42.37	42.85	43.80	44.33	NR	41.42	41.49	41.06	40.93	40.96	41.63	14
15	41.45	42.34	42.89	44.44	43.69	NR	41.40	41.38	41.12	40.89	40.84	41.62	15
16	42.01	42.40	42.79	44.60	42.44	NR	41.38	41.35	41.00	39.94	40.89	41.58	16
17	42.49	42.41	42.28	44.65	41.91	41.62	41.37	41.33	41.15	40.92	40.90	41.54	17
18	42.49	42.41	42.11	44.65	41.78	42.25	41.42	41.33	40.92	40.91	41.09	41.58	18
19	42.41	42.46	42.07	43.81	42.62	42.49	41.41	41.33	40.98	41.00	41.48	41.83	19
20	42.52	42.31	42.06	41.67	43.05	43.21	41.42	41.34	40.99	40.91	41.40	41.66	20
21	42.58	42.30	42.30	44.03	42.92	43.26	41.42	41.41	41.01	40.94	41.08	41.60	21
22	43.30	42.30	41.96	44.57	43.14	43.56	41.38	NR	41.00	40.91	40.97	41.57	22
23	44.83	42.29	41.72	44.72	42.34	44.07	41.38	NR	41.01	41.16	41.00	41.71	23
24	45.19	42.29	42.08	44.64	41.86	42.42	41.40	NR	41.10	41.46	40.93	41.80	24
25	45.24	42.30	42.53	44.38	42.53	43.02	41.41	NR	40.93	41.26	40.99	41.91	25
26	45.08	42.29	41.96	43.26	42.61	43.13	41.38	NR	40.94	41.25	41.05	42.00	26
27	44.79	42.26	43.24	41.96	42.03	42.28	41.42	NR	40.96	41.12	41.13	41.97	27
28	44.65	42.22	43.81	43.92	41.80	42.00	41.35	NR	40.93	41.05	41.04	41.79	28
29	44.82	42.12	43.21	44.56		41.81	41.34	NR	40.93	40.96	41.00	41.65	29
30	44.82	42.20	42.03	44.76		41.80	41.33	NR	40.96	40.98	41.00	41.65	30
31	44.60		43.49	44.68		41.81		NR		40.90	41.00		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
E - ESTIMATED	2-01-75	1230	45.91								
NR - NO RECORD											
NE - NO FLOW											

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1878-1884 1891-1894	1940		0.00	USCGS
Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.											

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR		STATION NO	STATION NAME										
1975		B04105	TUOLUMNE RIVER AT TUOLUMNE CITY										
		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.			
28.81		30.03	25.71	26.33	24.31	24.63	23.57	23.30	23.29	23.28			
27.23		28.97	26.15	25.93	24.31	24.34	23.39	23.25	23.25	23.28			
27.64		27.22	25.93	25.44	24.33	23.88	23.37	23.32	23.32	23.18			
29.38		28.36	26.75	24.96	24.36	23.64	23.39	23.38	23.38	23.44			
29.08		28.90	27.47	24.92	24.40	23.58	23.44	23.33	23.40	24.20			
27.48		29.10	27.90	25.22	24.36	23.82	23.57	23.67	24.92	24.92			
27.88		28.90	28.29	25.51	24.38	24.00	23.55	23.66	25.27	25.27			
29.43		28.85	28.43	25.69	24.32	23.79	23.66	23.30	25.32	25.32			
29.36		28.21	28.08	26.21	24.40	23.66	23.50	23.28	25.01	25.01			
29.53		27.99	27.46	26.10	24.27	23.56	23.38	23.39	25.00	25.00			
29.64		28.48	27.96	25.64	24.35	24.02	23.45	23.41	25.15	25.15			
29.05		28.62	28.62	25.17	24.32	24.33	23.71	23.29	25.13	25.13			
27.32		28.71	27.22	24.95	24.28	24.10	23.69	23.44	25.46	25.46			
27.78		29.65	27.20	24.82	24.45	24.15	23.53	23.40	25.40	25.40			
29.43		30.20	28.36	24.68	24.60	24.59	23.28	23.23	25.09	25.09			
29.70		29.04	27.28	24.57	24.34	24.57	23.44	23.22	25.08	25.08			
29.78		27.81	27.69	24.51	24.28	24.79	23.40	23.30	24.83	24.83			
29.85		26.83	27.41	24.56	24.33	24.78	23.38	23.40	24.87	24.87			
29.33		27.46	27.33	24.56	24.26	24.56	23.42	24.33	25.10	25.10			
27.48		28.32	28.35	24.61	24.22	23.90	23.37	24.58	25.37	25.37			
28.00		28.36	28.72	24.58	24.34	23.59	23.37	23.96	25.09	25.09			
29.59		28.38	28.82	24.46	24.22	23.59	23.24	23.51	24.96	24.96			
29.82		27.67	29.52	24.42	24.22	23.49	23.40	23.49	25.05	25.05			
29.87		26.48	28.15	24.43	24.27	23.66	24.28	23.39	25.50	25.50			
29.72		26.93	28.08	24.56	24.38	23.47	24.17	23.33	25.75	25.75			
28.87		27.62	28.73	24.43	24.27	23.36	23.96	23.31	26.07	26.07			
27.11		26.93	27.85	24.56	24.21	23.41	23.97	23.41	26.18	26.18			
27.94		26.01	27.05	24.47	24.17	23.41	23.63	23.40	25.89	25.89			
29.59			26.67	24.36	24.50	23.42	23.47	23.24	25.41	25.41			
29.84			26.60	24.35	24.73	23.36	23.40	23.24	25.09	25.09			
29.87			26.66		24.83		23.35	23.29					

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-03-74	2115	31.04						

E — ESTIMATED
NR — NO RECORD
NE — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B A M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE			1959	0.00 USED
				43.15a	12- 9-50			1960		0.00 USCGS
			37900b	42.86	1-27-69			1960		3.50 USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.
b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17.74	18.88	17.37	17.72	18.62	17.27	20.01	15.83	17.99	15.52	14.48	15.15	1
2	17.74	19.10	17.52	17.34	18.46	17.29	19.44	15.67	18.76	15.30	14.40	15.05	2
3	17.37	19.47	17.77	16.71	17.57	17.37	18.67	15.67	19.34	15.23	14.45	15.10	3
4	17.27	19.46	18.25	17.92	17.97	17.21	18.04	16.25	20.07	15.23	14.57	15.06	4
5	17.15	19.45	18.18	18.03	19.31	17.66	17.71	16.66	20.13	15.26	14.47	15.43	5
6	16.83	18.65	18.41	17.45	20.23	18.01	17.65	16.58	19.81	15.34	14.44	15.88	6
7	16.69	17.83	18.69	16.81	20.77	18.50	17.82	16.81	20.09	15.30	14.54	16.14	7
8	16.66	17.64	18.72	18.01	21.00	18.92	18.03	16.89	20.25	15.17	14.55	16.27	8
9	16.58	17.67	18.65	18.08	20.91	19.10	18.57	16.83	20.61	15.19	14.54	16.13	9
10	16.33	17.67	18.54	18.16	20.63	19.12	18.75	16.76	20.80	15.08	14.57	16.03	10
11	16.22	17.64	18.48	18.31	20.72	19.13	18.74	16.52	20.75	14.86	14.68	16.27	11
12	16.61	17.63	18.46	18.22	20.89	19.71	18.59	16.43	20.34	14.89	14.63	16.37	12
13	16.80	17.66	18.44	17.49	20.93	19.57	18.35	16.28	19.35	14.90	14.53	16.59	13
14	16.74	17.67	18.42	16.91	21.56	19.47	18.12	16.53	19.64	14.83	14.47	16.60	14
15	16.41	17.60	18.43	18.01	22.36	20.08	17.82	16.74	20.45	14.74	14.43	16.64	15
16	16.22	17.61	18.42	18.27	22.04	19.90	17.44	16.90	20.80	14.75	14.44	16.69	16
17	16.97	17.62	18.25	18.40	21.37	19.88	17.01	17.02	20.90	14.92	14.68	16.60	17
18	17.15	17.60	17.75	18.44	20.61	19.96	16.91	17.24	21.02	14.92	15.23	16.58	18
19	17.08	17.60	17.51	18.26	20.30	19.75	16.83	17.30	20.78	15.05	15.88	16.58	19
20	16.97	17.57	17.36	17.57	20.41	20.08	16.93	17.38	19.62	15.08	15.96	16.77	20
21	17.06	17.40	17.34	16.96	20.12	20.30	17.01	17.55	17.75	15.01	15.79	16.73	21
22	17.17	17.34	17.16	18.28	19.78	20.31	16.84	17.62	16.98	14.75	15.71	16.73	22
23	17.85	17.26	16.58	18.55	19.45	20.69	16.74	17.49	16.65	14.56	15.76	16.77	23
24	18.47	17.24	16.36	18.65	18.77	20.52	16.56	17.42	16.39	14.72	15.68	16.92	24
25	18.67	17.30	16.79	18.62	18.47	20.18	16.40	17.52	16.24	14.95	15.48	17.06	25
26	18.75	17.33	16.98	18.31	18.92	20.62	16.36	17.51	16.05	14.67	15.13	17.28	26
27	18.68	17.37	16.65	17.48	18.44	20.60	16.42	17.54	15.93	14.71	15.03	17.35	27
28	18.66	17.36	17.68	17.02	17.67	20.37	16.41	17.54	15.81	14.53	14.98	17.34	28
29	18.77	17.32	17.75	18.20		20.32	16.20	17.51	15.79	14.50	14.87	17.23	29
30	18.93	17.23	17.34	18.47		20.46	15.96	17.55	15.72	14.51	14.87	17.15	30
31	18.95		16.78	18.57		20.50		17.63		14.59	15.07		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-15-75	1035	22.40									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 38 28	121 13 37	SW29 3S 7E	45,550	38.31a	1-27-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS
								1959		3.41	USED
Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Drainage area is 12,400 square miles.											
a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.											

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1975	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.66	1.87	4.97	2.23	1.54	4.38	5.32	2.27	12.55	1.61	1.77	1.70	1
2	1.72	1.84	4.98	2.21	1.67	4.37	4.68	3.77	13.50	2.45	1.71	1.71	2
3	1.70	1.80	5.06	2.25	1.93	3.68	4.18	6.76	12.47	3.16	1.69	1.69	3
4	1.71	1.81	5.05	2.23	4.01	1.87	3.95	7.45	10.43	2.53	1.71	1.64	4
5	1.67	1.95	4.91	2.26	6.52	1.72	3.93	7.64	12.36	2.74	1.70	1.67	5
6	1.68	2.17	4.89	2.30	6.49	1.70	4.16	7.62	11.94	2.52	1.74	1.65	6
7	1.72	2.21	4.89	2.11	6.31	1.70	4.28	7.81	12.05	3.36	1.69	1.62	7
8	1.78	2.22	4.87	2.06	6.05	2.34	4.65	7.71	11.98	4.03	1.63	1.64	8
9	1.72	2.25	4.86	2.04	6.54	4.21	4.77	7.09	11.57	3.18	1.62	1.66	9
10	1.69	2.26	4.85	2.01	6.62	4.19	4.77	6.21	10.07	2.09	1.66	1.65	10
11	1.77	2.26	4.84	1.98	6.50	5.12	4.81	6.19	7.69	1.72	1.69	1.62	11
12	1.79	2.25	4.83	1.99	6.46	6.11	4.81	6.64	5.87	1.75	1.63	1.66	12
13	1.75	2.25	4.83	1.97	6.84	6.28	4.79	7.27	8.45	1.73	1.62	1.63	13
14	1.68	2.25	4.81	1.98	6.57	6.34	4.33	6.93	9.44	1.70	1.64	1.62	14
15	1.68	2.26	4.80	1.97	6.45	6.13	3.81	7.04	9.41	1.75	1.63	1.60	15
16	1.61	2.26	4.81	1.95	6.42	6.61	3.44	7.03	9.45	1.81	1.62	1.62	16
17	1.62	2.25	4.80	1.94	6.40	6.15	3.26	7.09	9.19	1.82	1.61	1.60	17
18	1.61	2.25	4.78	1.96	6.39	6.10	3.13	7.13	8.65	1.77	1.71	1.56	18
19	1.58	2.21	4.77	1.96	6.39	6.07	2.97	7.28	5.82	1.78	1.75	1.58	19
20	1.58	2.22	4.39	1.93	6.39	6.06	2.90	7.40	3.35	1.73	1.66	1.64	20
21	1.64	2.21	3.16	1.98	6.38	6.08	2.90	7.39	2.26	1.72	1.63	1.67	21
22	1.60	2.40	2.99	1.94	6.36	6.78	3.06	7.29	1.88	1.73	1.62	1.65	22
23	2.69	3.54	2.96	1.96	6.35	6.17	3.04	7.23	1.77	1.72	1.56	1.65	23
24	3.02	3.83	2.71	1.95	6.34	6.21	3.06	7.13	1.74	1.65	1.55	1.66	24
25	3.46	4.20	2.10	1.95	5.91	6.33	3.07	7.24	1.71	1.64	1.56	1.66	25
26	3.34	4.94	2.03	1.93	4.71	6.15	3.05	7.31	1.70	1.68	1.56	1.61	26
27	3.35	4.95	2.03	1.95	4.41	6.09	3.05	7.46	1.72	1.70	1.71	1.62	27
28	3.28	4.96	2.04	1.95	4.40	6.07	3.05	7.52	1.73	1.74	1.74	1.62	28
29	2.99	4.97	2.17	1.96		6.06	2.87	7.57	1.68	1.73	1.74	1.62	29
30	1.93	4.99	2.24	1.81		5.79	2.82	7.74	1.62	1.70	1.73	1.65	30
31	1.91		2.25	1.60		5.42		10.61		1.75	1.68		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-02-75	1815	13.88									

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FRDM	TO	
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 26-DEC 39 APR 40-DATE				117.21 USCGS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	37.86	37.88	40.94	37.03	36.50	41.28	42.96	38.79	50.37	38.79	37.62	37.89	1
2	37.88	37.68	41.03	36.99	36.46	41.25	42.47	38.24	53.02	38.50	37.37	37.44	2
3	37.63	37.47	41.53	36.96	36.45	41.08	41.76	40.27	54.85	38.66	37.09	37.30	3
4	37.79	37.36	41.98	36.95	36.59	40.09	41.22	44.12	54.84	39.28	37.28	37.33	4
5	37.87	37.30	41.63	36.92	39.12	39.42	40.87	45.41	53.37	39.06	37.36	37.02	5
6	37.31	37.31	41.64	36.90	42.50	39.07	40.78	45.88	54.34	39.45	37.06	37.04	6
7	37.24	37.50	41.78	36.91	43.15	38.95	41.02	46.57	54.38	39.25	37.26	37.54	7
8	37.35	37.61	41.82	36.89	43.18	39.10	41.79	46.62	54.44	39.80	37.51	38.07	8
9	37.29	37.38	41.80	36.91	43.02	39.17	42.54	46.70	54.47	40.54	37.31	37.77	9
10	37.30	37.15	41.80	36.94	43.77	40.60	42.63	45.77	54.10	39.71	37.51	37.37	10
11	37.37	37.09	41.80	36.87	43.88	40.84	42.42	44.46	52.78	38.60	37.43	37.32	11
12	37.65	37.07	41.79	36.85	43.75	42.09	42.16	44.37	49.25	38.23	37.21	37.27	12
13	38.02	37.06	41.83	36.82	43.88	43.35	42.19	45.05	46.20	38.21	37.19	37.05	13
14	38.26	36.44	41.88	36.80	44.86	44.43	41.81	45.91	48.94	38.09	37.21	36.87	14
15	38.31	37.34	41.84	36.79	44.29	44.44	41.03	45.57	50.64	37.87	37.17	37.39	15
16	37.54	37.81	41.85	36.78	43.95	44.27	40.45	45.60	50.97	37.66	37.10	37.33	16
17	37.65	37.90	41.87	36.74	43.86	44.70	40.21	45.66	51.10	37.73	37.43	36.94	17
18	37.37	37.93	41.86	36.73	43.83	44.23	39.82	45.77	50.88	38.03	37.64	37.22	18
19	37.20	37.99	41.84	36.72	43.83	43.98	39.50	45.88	49.90	37.92	38.26	36.87	19
20	37.24	37.69	41.83	36.72	43.85	43.94	39.46	46.21	45.54	38.07	38.24	37.66	20
21	37.32	37.21	41.16	36.70	43.84	43.94	39.52	46.69	42.26	38.03	38.11	37.74	21
22	37.28	37.13	39.30	36.71	43.82	44.35	39.27	46.47	41.02	37.76	37.88	37.71	22
23	37.23	37.18	38.75	36.69	43.81	45.00	39.26	46.15	40.35	37.63	37.64	37.22	23
24	37.69	38.32	38.55	36.68	43.82	44.29	39.34	46.03	40.12	37.52	37.67	37.19	24
25	38.28	39.03	38.24	36.67	44.15	44.26	39.55	46.12	39.41	37.34	37.20	37.25	25
26	38.85	39.56	37.64	36.66	43.72	44.44	39.67	46.05	39.08	37.48	37.09	37.10	26
27	38.61	40.48	37.39	36.63	41.91	44.04	39.61	46.22	39.07	37.43	37.43	37.24	27
28	38.46	40.70	37.29	36.64	41.44	43.86	39.56	46.35	38.99	37.51	37.52	37.00	28
29	38.43	40.81	37.21	35.83		43.97	39.41	46.44	39.00	37.52	37.44	37.13	29
30	38.28	40.88	37.14	36.62		44.40	39.10	46.61	39.06	37.63	37.25	37.21	30
31	37.86		37.08	36.58		43.80		47.08		37.28	37.74		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-03-75	2230	55.37									
E — ESTIMATED											
NR — NO RECORD											
NE — NO FLOW											

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
37 43 50	121 06 35	SE29 2S 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00	USGS
Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.											

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	29.32	28.78	31.78	28.01	27.18	32.08	33.79	29.99	39.58	29.75	28.77	29.13	1
2	29.15	28.62	31.86	27.96	27.13	32.02	33.24	29.54	41.79	29.54	28.73	28.72	2
3	28.98	28.38	32.24	27.92	27.09	31.89	32.71	30.69	43.68	29.56	28.35	28.35	3
4	28.91	28.23	32.72	27.88	27.18	31.21	32.27	34.44	44.76	30.20	28.50	28.44	4
5	29.07	28.15	32.57	27.87	28.65	30.58	31.87	35.78	43.49	29.93	28.57	28.24	5
6	28.80	28.12	32.43	27.83	32.58	30.23	31.78	36.23	43.62	30.47	28.30	28.31	6
7	28.69	28.27	32.60	27.73	33.56	29.91	32.01	36.80	44.14	30.30	28.39	28.70	7
8	28.75	28.41	32.63	27.59	33.76	30.08	32.67	36.99	44.26	30.52	28.58	29.14	8
9	28.63	28.31	32.63	27.59	33.62	29.97	33.46	37.05	44.31	31.36	28.76	29.05	9
10	28.74	28.00	32.61	27.64	34.18	31.26	33.60	36.42	44.10	30.79	28.81	28.60	10
11	28.81	27.90	32.61	27.58	34.41	31.65	33.43	35.30	43.08	29.82	28.73	28.54	11
12	29.00	27.86	32.59	27.55	34.31	32.55	33.25	35.16	40.08	29.52	28.52	28.48	12
13	29.30	27.84	32.62	27.52	34.37	33.85	33.22	35.49	36.71	29.64	28.61	28.18	13
14	29.50	27.82	32.67	27.50	35.15	34.85	33.01	36.42	38.59	29.33	28.28	28.07	14
15	29.54	27.98	32.64	27.48	34.90	35.10	32.26	36.18	40.31	29.17	28.41	28.44	15
16	28.92	28.53	32.62	27.47	34.51	34.86	31.63	36.23	40.72	29.09	28.43	28.57	16
17	28.70	28.70	32.65	27.43	34.41	35.38	31.33	36.18	40.85	28.98	28.65	28.26	17
18	28.42	28.75	32.63	27.41	34.38	34.90	31.02	36.33	40.69	29.23	28.96	28.21	18
19	28.17	28.80	32.61	27.39	34.36	34.73	30.63	36.35	39.97	29.09	29.27	28.44	19
20	28.12	28.65	32.61	27.40	34.38	34.70	30.54	36.60	36.56	29.26	29.51	28.77	20
21	28.19	28.09	32.23	27.37	34.38	34.70	30.68	37.05	33.37	29.31	29.39	28.85	21
22	28.17	27.94	30.50	27.36	34.36	34.95	30.51	36.88	32.25	29.05	29.27	28.96	22
23	28.08	27.89	29.74	27.35	34.35	35.67	30.45	36.57	31.57	28.94	28.87	28.70	23
24	28.11	28.74	29.49	27.33	34.36	35.08	30.59	36.44	31.28	28.81	29.03	28.50	24
25	28.82	29.76	29.35	27.33	34.57	34.99	30.67	36.56	30.65	28.66	28.67	28.54	25
26	29.63	30.12	28.99	27.31	34.50	35.14	30.81	36.48	30.23	28.58	28.22	28.23	26
27	29.54	31.12	28.55	27.30	32.88	34.83	30.93	36.55	30.10	28.81	28.65	28.43	27
28	29.38	31.45	28.34	27.27	32.24	34.56	30.71	36.73	30.11	28.94	28.81	28.23	28
29	29.34	31.61	28.23	27.29		34.56	30.50	36.71	30.16	28.84	28.69	28.46	29
30	29.21	31.70	28.15	27.27		35.11	30.32	36.86	30.08	28.83	28.49	28.47	30
31	28.86		28.08	27.24		34.74		37.15		28.79	28.81		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NE — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
6-04-75	1015	44.93									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963	1969	0.37	USC&GS
								1970		0.00	USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions. Drainage area is 1,094 square miles.

TABLE B-9 (Cont.)
DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1975	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13.67	14.71	13.77	13.34	14.14	13.74	16.38	12.11	14.98	11.67	10.65	11.31	1
2	13.74	14.83	13.93	13.21	14.09	13.66	15.79	11.92	15.85	11.59	10.59	11.12	2
3	13.44	15.14	14.16	12.44	13.03	13.76	15.07	11.98	16.49	11.49	10.59	11.10	3
4	13.25	15.24	14.64	13.45	13.36	13.46	14.42	12.86	17.20	11.59	10.67	11.00	4
5	13.16	15.18	14.57	13.70	14.67	13.66	14.05	13.55	17.39	11.63	10.62	11.26	5
6	12.90	14.58	14.62	13.30	15.94	13.85	13.93	13.58	16.99	11.73	10.50	11.60	6
7	12.74	13.78	14.90	12.53	16.75	14.24	14.10	13.83	17.22	11.71	10.58	11.95	7
8	12.71	13.58	14.96	13.56	17.06	14.63	14.28	14.00	17.38	11.53	10.64	12.12	8
9	12.65	13.57	14.92	13.65	17.03	14.86	14.88	13.94	17.65	11.68	10.69	12.06	9
10	12.46	13.55	14.82	13.75	16.74	15.00	15.11	13.89	17.83	11.62	10.72	11.89	10
11	12.25	13.50	14.77	13.87	16.81	15.07	15.10	13.56	17.75	11.27	10.82	12.08	11
12	12.58	13.49	14.75	13.88	16.98	15.61	14.96	13.44	17.34	11.17	10.76	12.20	12
13	12.80	13.50	14.72	13.34	16.95	15.79	14.74	13.30	16.10	11.16	10.63	12.46	13
14	12.80	13.53	14.71	12.56	17.56	15.73	14.54	13.58	16.17	11.08	10.55	12.50	14
15	12.68	13.47	14.72	13.52	18.40	16.31	14.20	13.75	17.07	10.98	10.48	12.49	15
16	12.36	13.51	14.72	13.84	18.28	16.26	13.79	13.90	17.53	10.96	10.49	12.64	16
17	12.78	13.57	14.61	13.95	17.71	16.20	13.33	14.02	17.62	11.09	10.70	12.50	17
18	13.02	13.57	14.20	14.00	17.01	16.35	13.17	14.20	17.78	11.12	11.27	12.45	18
19	12.93	13.57	13.96	13.90	16.64	16.05	13.02	14.31	17.59	11.24	11.85	12.48	19
20	12.82	13.56	13.82	13.37	16.76	16.30	13.05	14.32	16.59	11.26	12.06	12.67	20
21	12.85	13.35	13.75	12.61	16.55	16.53	13.13	14.54	14.51	11.23	11.89	12.72	21
22	12.93	13.24	13.46	13.74	16.27	16.56	12.99	14.64	13.55	11.02	11.78	12.72	22
23	13.45	13.18	12.79	14.07	15.99	16.96	12.83	14.54	13.14	10.76	11.77	12.68	23
24	14.07	13.18	12.46	14.20	15.41	16.94	12.72	14.45	12.82	10.78	11.73	12.76	24
25	14.35	13.38	12.73	14.19	15.03	16.48	12.61	14.51	12.62	11.02	11.57	12.82	25
26	14.56	13.48	12.94	13.97	15.47	16.84	12.62	14.57	12.32	10.79	11.11	13.02	26
27	14.57	13.64	12.49	13.30	15.00	16.91	12.69	14.53	12.17	10.88	11.02	13.07	27
28	14.52	13.74	13.32	12.62	14.20	16.67	12.71	14.58	12.11	10.79	11.03	13.06	28
29	14.62	13.74	13.53	13.68		16.57	12.51	14.57	12.07	10.69	10.92	13.02	29
30	14.77	13.67	13.21	13.98		16.74	12.28	14.62	12.04	10.71	10.88	12.93	30
31	14.82		12.53	14.11		16.83		14.70		10.75	11.06		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
2-15	1845	18.60									

E — ESTIMATED
NR — NO RECORD
NE — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12-9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 2.4 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-10
CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published.

For other corrections and revisions to previously published reports dating back to 1924, refer to Page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			CHANGE		
PAGE	MILE & BANK	NAME	ITEM	FROM	TO
132		Bulletin No. 23-58 Surface Water Flow for 1958 Table 149 San Joaquin River at Whitehouse	July acre-feet Water Year Total	247300 1292000	24730 1069000
B-19		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley Table B-9 Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year	1140E	804
B-29		Table B-19 Bear Creek near Cathay	Maximum Discharge 1963 Water Year	1140E	804
B-98	8 (12.00-13.75)	Table B-19 Bear Creek near Cathay	Maximum Discharge 1963 Water Year	3850E 9.98	4170E 10.07
		Table B-19 Bear Creek near Cathay	Maximum Discharge of record	3850E 9.98	4170E 10.07
		Table B-87 Tranquillity Irrigation District	Diversions	204	204
			Oct.		
			Nov.		52
			Dec.		2005
			Jan.	1777	4112
			Feb.	4066	383
			March		2291
			April		7200
			May		7454
			June	557	6659
			July	6306	1414
			Aug.	1414	31774
			Sept.		
			Total	14324	
68		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley Table B-4 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record	3850E 9.98	4170E 10.07
		Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
61		Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley	Maximum Discharge of record	4166E 9.97	4170E 10.07
			gauge ht.	1-7-65	2-1-63
82		Table B-5 Orestimba Creek near Crows Landing	Daily Mean Discharge Jan. 8	0.0	B NR
			9	0.0	A NR
			10	0.0	C NR
			11	0.0	K NR
			12	0.0	W NR
			13	0.0	A NR
			14	0.0	T NR
			15	0.0	E NR
			16	0.0	R NR
			17	0.0	NR
115	112.55R	Table B-7 Diversions - San Joaquin River	L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7 United Packing Company	Diversions	Total	700
		Bulletin No. 130-66 Hydrologic Data 1966 Volume IV, San Joaquin Valley Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record	4166E 9.97	4170E 10.07
76		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record	4166E 9.97	4170E 10.07
			gauge ht.	1-7-65	2-1-63
78		Table B-4 Burns Creek at Hornitos	Maximum Discharge 1966 Water Year	1330E	2020E

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR				CHANGE	
PAGE	MILE & BANK	NAME	ITEM	FROM	TO
86		Table B-4 Merced River at Cressey	Minimum discharge Month 1966 Water Year	7	8
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January Average cubic feet per second Monthly use in percent of seasonal Total Diversion Average cubic feet per second	18033 293 3.5 516577 714	1833 29.8 0.4 500377 691
133		Table B-9 Exports from Tuolumne River	Total acre-feet Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	15655 12685 14987 7812 11913 15566 11060 15208 16388 21398 21312 19498 185482	15696 12721 15023 7851 11946 12607 11106 15260 16438 21462 21379 19552 183041
		*Bulletin No. 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley			
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions Sept. Total	40 278	17 255
		Bulletin No. 130-68 Hydrologic Data 1968 Volume IV, San Joaquin Valley			
104		Table B-5 Laguna Water District	Diversions May June July Aug. Total		90 110 110 90 400
107	1.9 L 2.9 L	Table B-5 J. V. Steenstrup Estate	Name	J. V. Steen- strup Estate	John & Robert Bogetti
		Bulletin No. 130-69 Hydrologic Data 1969 Volume IV, San Joaquin Valley			
54		Table B-4 San Joaquin River near Dos Palos	Maximum Discharge Month 1969 Water Year Day Time Gage Ht. Flow	3 11 2300 10.42 5560	6 16 0800 10.38 5900
78		Table B-4 Merced River below Snelling	Daily Mean Discharge Jan. 21 Monthly Mean Monthly acre-feet	946 189 11620	980 190 11680
87		Table B-4 San Joaquin River at Maze Road Bridge	Maximum Discharge 1969 Water Year Gage Ht. Time Maximum Discharge of record Last line Feet Hours Date	42800 36.46 0400 42800 36.46 37.00 2400 2-28-69	45550 36.87 0300 45550 36.87 38.31 2000 1-27-69
95		Table B-4 Tule River below Porterville	Maximum Discharge 1969 Water Year Discharge Gage Ht. Month Day Time		3066 5.35 2 26 1200
130		Table B-12 San Joaquin River at Fremont Ford Bridge	Maximum Discharge of Record Gage Ht. Date Footnote a	8260b 68.02 2-27-69 Delete	9180b 68.05 2-26-69 Entire Note

* Additional corrections for 1967 are listed on page 121

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

PAGE	MILE & BANK	LOCATION OF ERROR NAME	ITEM	CHANGE	
				FROM	TO
133		Table B-12 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
140		Table B-12 San Joaquin River at Maze Road Bridge	Maximum Discharge Gage Ht. of Record Date	37.00a 2-28-69	38.31a 1-27-69
		Bulletin No. 130-70 Hydrologic Data 1970 <u>Volume IV, San Joaquin Valley</u>			
95		Table B-4 Woods-Central Ditch near Porterville	Daily Mean Discharge June 5 Monthly Acre-feet Water Year Total	132.0 7604 43386	27.5 7397 43179
102		Table B-6 Firebaugh Canal Company Firebaugh Canal Company Fremont Ford Bridge to Gravelly Ford	Diversion for April Total Diversion for Year Total for Reach	9657 51595 897796	7370 49308 895509
108		Table B-6 Woods-Central Ditch	Diversions June Total	7604 43386	7397 43179
117		Table B-11 San Joaquin River at Fremont Ford Bridge	Maximum Discharge CFS Gage Ht. Date Footnote a	8260b 68.02 2-27-69 Delete Entire Note	9180b 68.05 2-26-69
120		Table B-11 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
		Bulletin No. 130-73 Hydrologic Data 1973 <u>Volume IV, San Joaquin Valley</u>			
78		Table B-3 Friant-Kern Canal Delivery to Tule River	Discharge Monthly March Acre-feet April Acre-feet	3906 0	0 3906
		Bulletin No. 130-67 Hydrologic Data 1967 <u>Volume IV, San Joaquin Valley</u>			
128		Merced Irrigation District, Main Canal Table B-7 Diversion and Acreage Irrigated East Side Canals and Irrigation Districts	Monthly Acre-feet Jan Feb Mar Total Acre-feet	0 0 504 548009	1227 1100 1575 551407
		<u>Sacramento-San Joaquin Water Supervisor</u>			
110		Bulletin No. 23-55 for 1955 Table 158 Stanislaus River at Riverbank	Daily Mean Discharge Dec 23 Dec 24 Monthly Mean Discharge Dec Monthly Acre-feet Dec Total Acre-feet Year Maximum Discharge CFS	22800 56600 4853 298400 513424 85800	19800 48300 4489 276000 491024 61800
		Bulletin No. 130-67 Hydrologic Data 1967 <u>Volume IV, San Joaquin Valley</u>			
96		Table B-4 Stanislaus River at Riverbank	Monthly Acre-feet Jan	93670 97420	68470 91350

APPENDIX C
GROUND WATER MEASUREMENTS

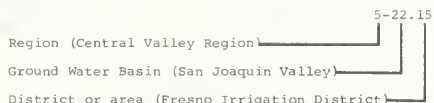
INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 500 wells for reporting of actual measurements.

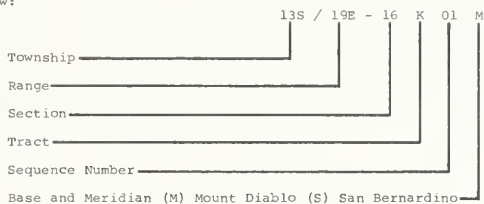
This appendix presents ground water measurement data on these wells for the period October 1, 1974, through September 30, 1975. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

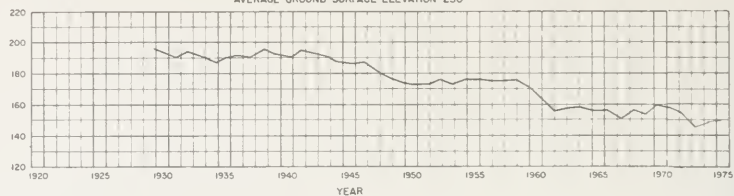
D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

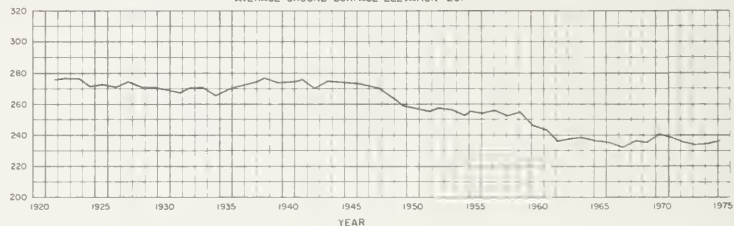
Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C.G.S. DATUM

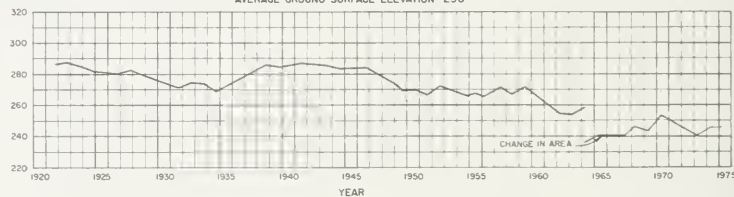
MADERA GROUND WATER AREA
AREA 342.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 230'



FRESNO GROUND WATER AREA
AREA 404.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 291'



CONSOLIDATED GROUND WATER AREA
AREA 243.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 296'



CENTERVILLE BOTTOMS GROUND WATER AREA
AREA 18.15 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'

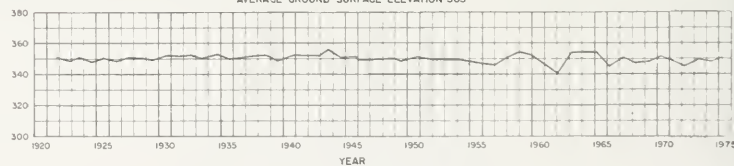
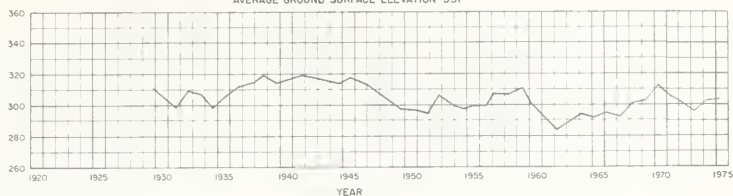


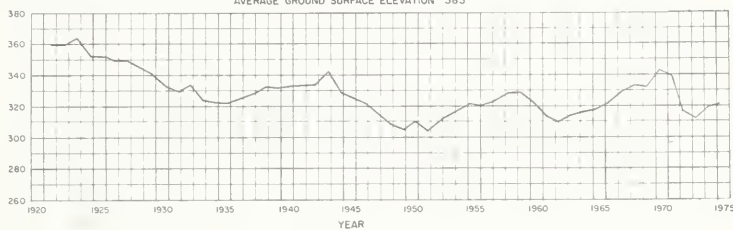
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET
U.S.C.G.S. DATUM

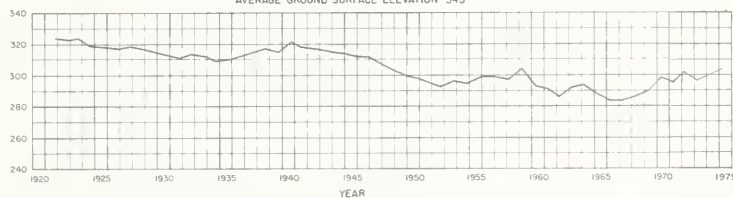
ALTA GROUND WATER AREA
AREA 190.93 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 331'



IVANHOE GROUND WATER AREA
AREA 17.37 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 348'



OUTSIDE IVANHOE GROUND WATER AREA
AREA 76.65 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 345'



MILL CREEK GROUND WATER AREA
AREA 128.25 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 305'

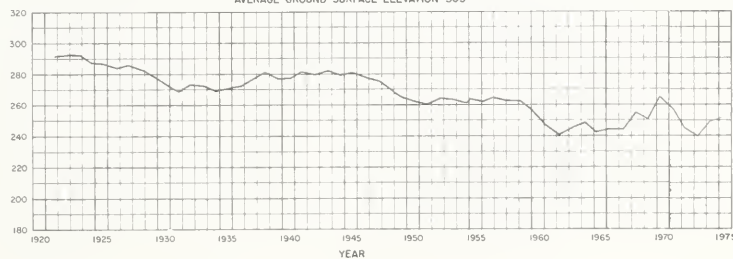
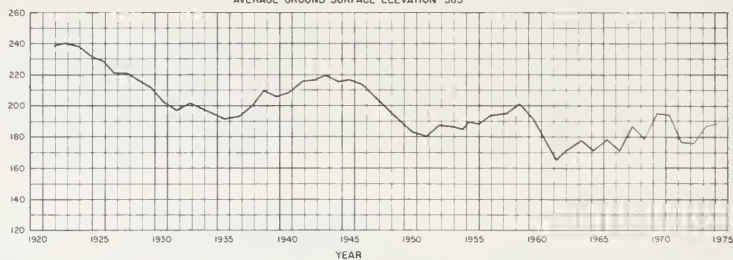


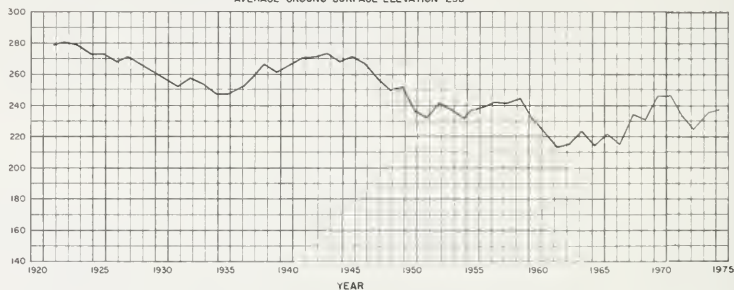
Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION
IN
FEET
—
U.S.C.&G.S.
DATUM

TULARE GROUND WATER AREA
AREA 121.07 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'



ELK BAYOU GROUND WATER AREA
AREA 67.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 295'



LINDSAY-EXETER GROUND WATER AREA
AREA 136.43 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 577'

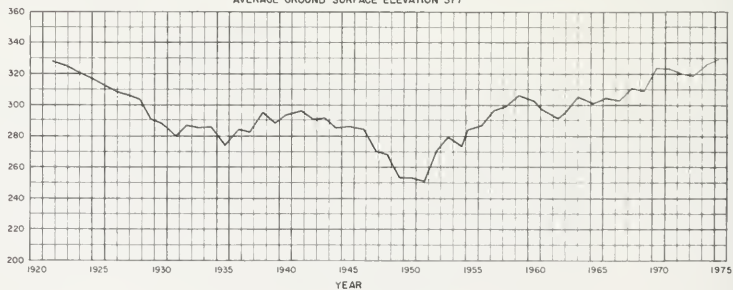
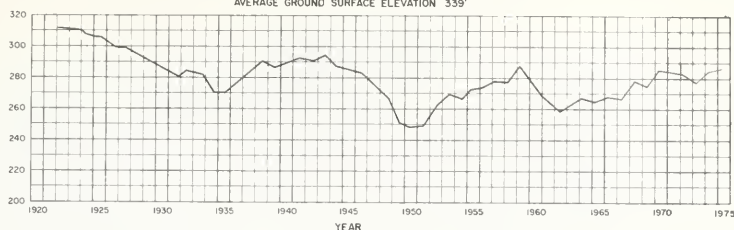


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET - U.S.C.&G.S. DATUM

TULE RIVER GROUND WATER AREA
 AREA 156.6 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 339'



LOWER DEER CREEK GROUND WATER AREA
 AREA 162.22 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 297'



MIDDLE DEER CREEK GROUND WATER AREA
 AREA 54.28 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 480'

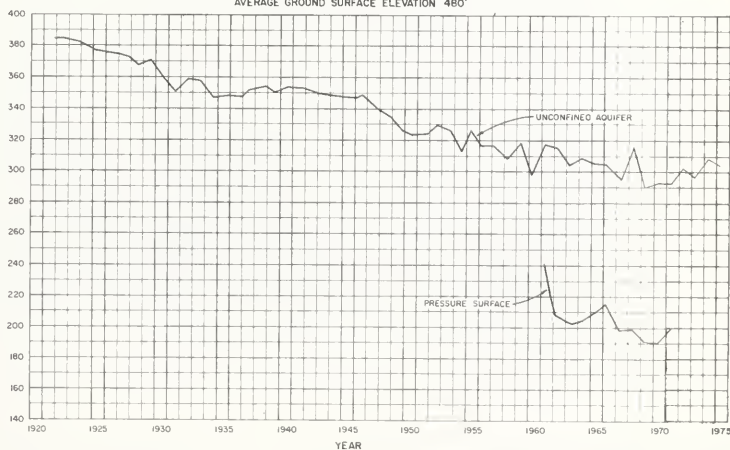


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

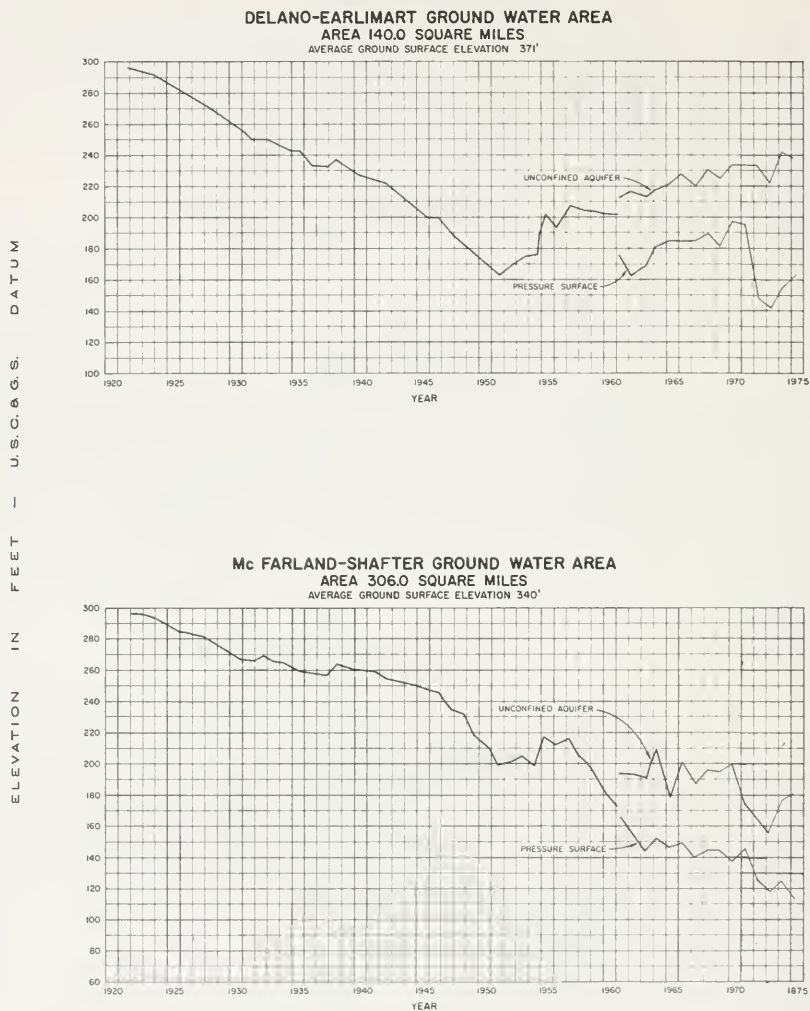
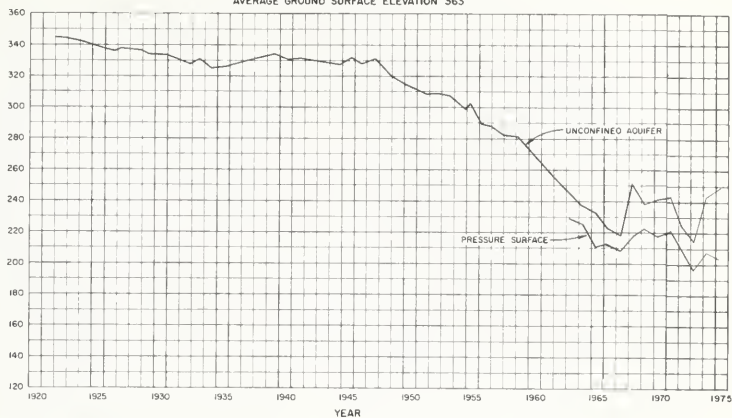


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C. & G.S. DATUM

ROSEDALE GROUND WATER AREA
AREA 78.88 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'



ARVIN-EDISON GROUND WATER AREA
AREA 205.18 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 543'



Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

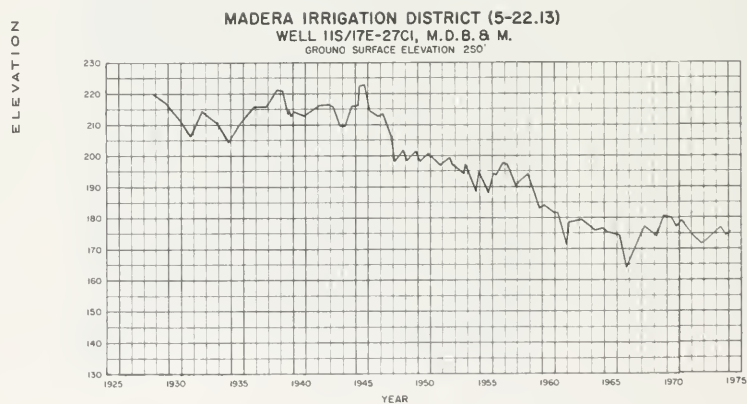
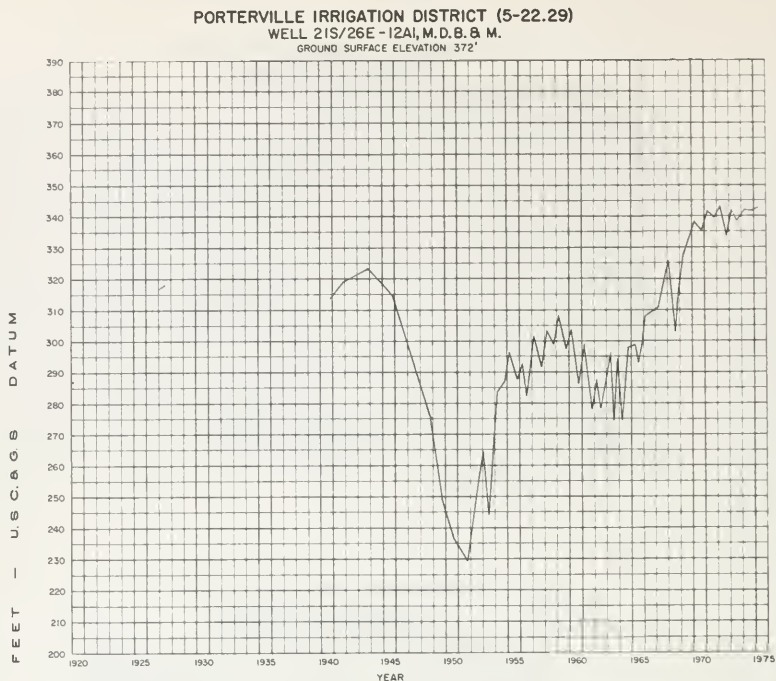
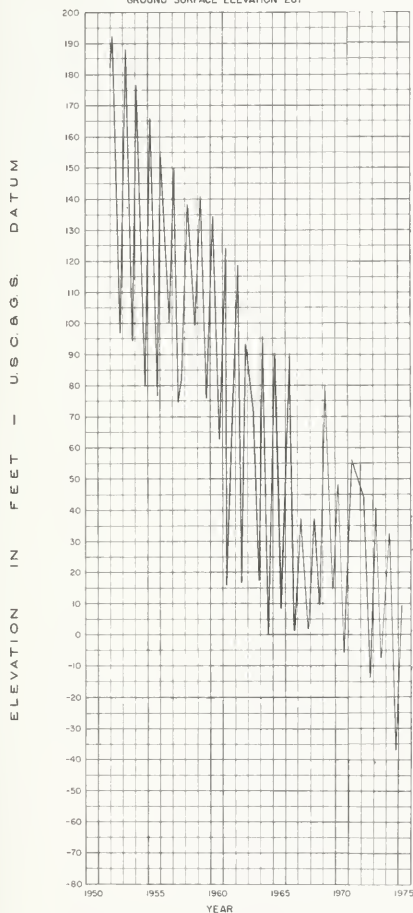
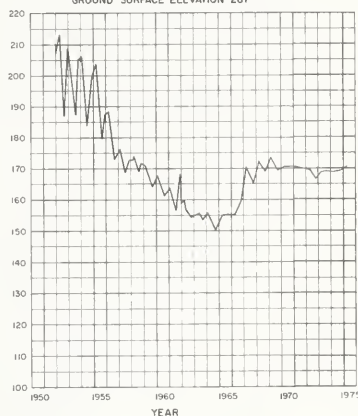


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

**SEMITROPIC WATER STORAGE DISTRICT-
DEEP ZONE (5-22.43)
WELL 27S/23E-1R4, M.D.B. & M.
GROUND SURFACE ELEVATION 267'**



**SEMITROPIC WATER STORAGE DISTRICT-
SHALLOW ZONE (5-22.43)
WELL 27S/23E-1R1, M.D.B. & M.
GROUND SURFACE ELEVATION 267'**



**MERCED IRRIGATION DISTRICT
(5-22.09)**

**WELL 7S/11E-1H1, M.D.B. & M.
GROUND SURFACE ELEVATION 118'**

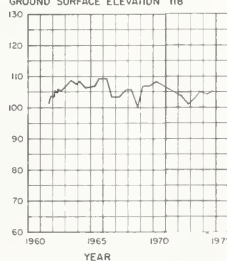
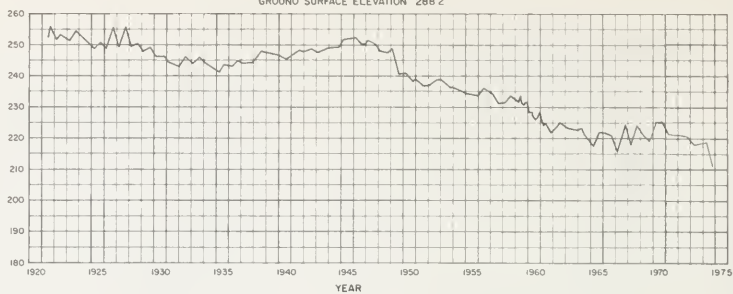


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S. CENTS

FRESNO IRRIGATION DISTRICT (5-22.15)
WELL 13S/19E-9Q1, M.D.B. & M.
GROUND SURFACE ELEVATION 288.2'



NORTH KERN WATER STORAGE DISTRICT (5-22.37)
WELL 27S/25E-22A1, M.D.B. & M.
GROUND SURFACE ELEVATION 392'

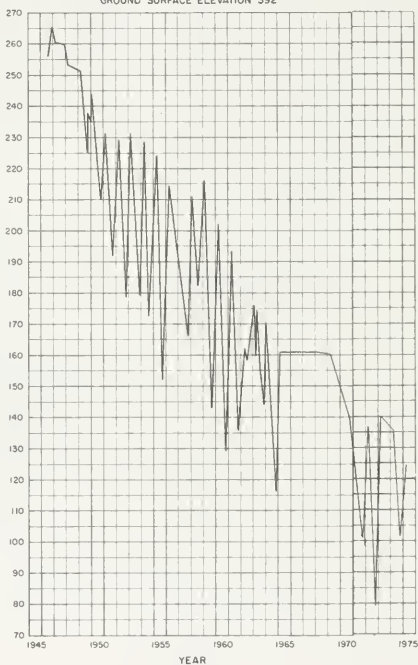
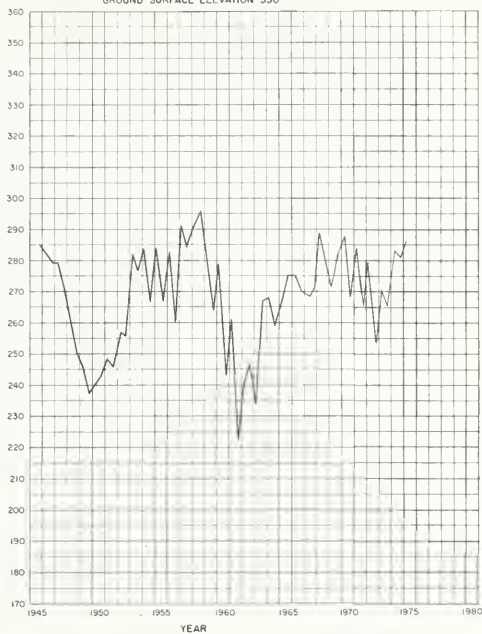


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
—
U.S.C.&G.S.
DATUM

LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 21S/26E-7A1, M.D.B.& M.
 GROUND SURFACE ELEVATION 330'



OAKDALE IRRIGATION DISTRICT (5-22.06)
WELL 2S/10E-33J1, M.D.B.& M.
 GROUND SURFACE ELEVATION 165'

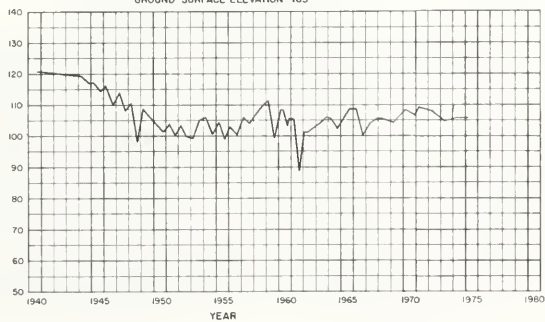
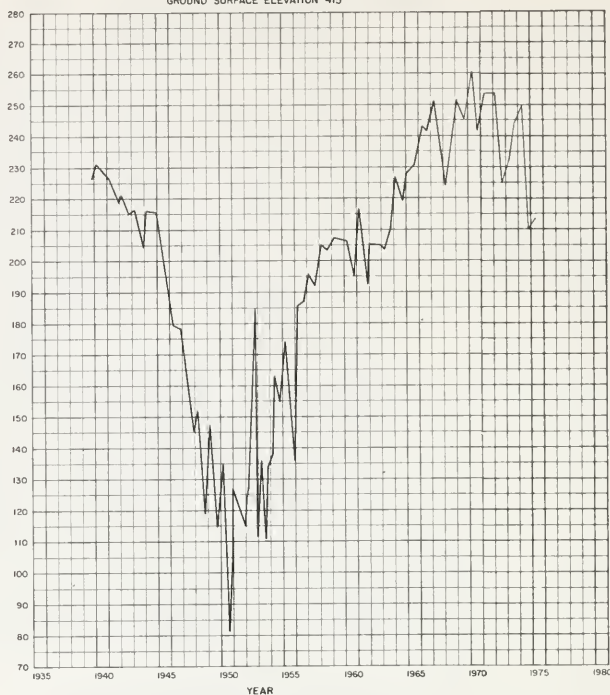


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN FEET - U.S.C.G.S. DATUM

SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 25S/26E-28H2, M.D.B. & M.
 GROUND SURFACE ELEVATION 415'



AVENAL-Mc KITTRICK AREA (5-22.44)
WELL 25S/19E-20Q2 M.D.B. & M.
 GROUND SURFACE ELEVATION 480'

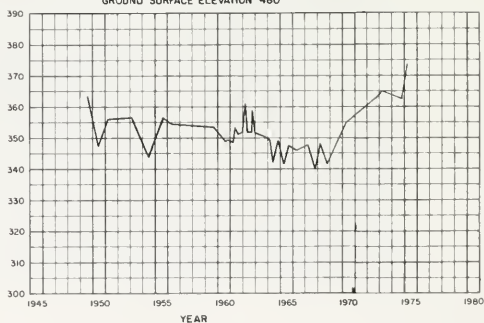
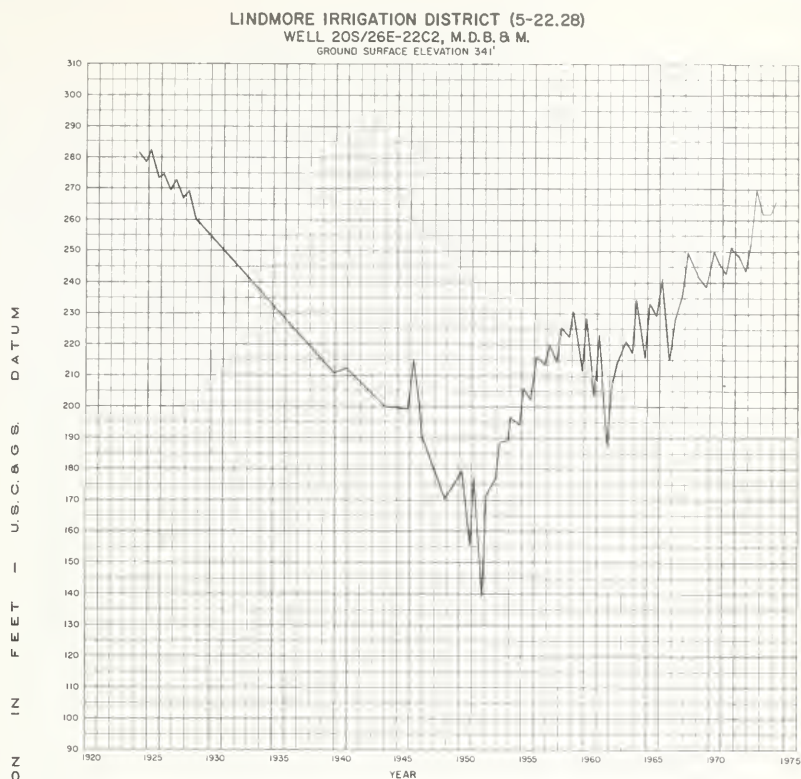
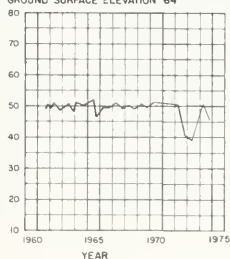


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



**MODESTO IRRIGATION DISTRICT
 (5-22.07)**

WELL 3S/8E-22C2, M.D.B. & M.
 GROUND SURFACE ELEVATION 64'



**TURLOCK IRRIGATION DISTRICT
 (5-22.08)**

WELL 5S/9E-4A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 70'

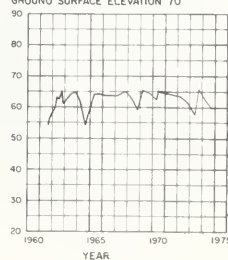
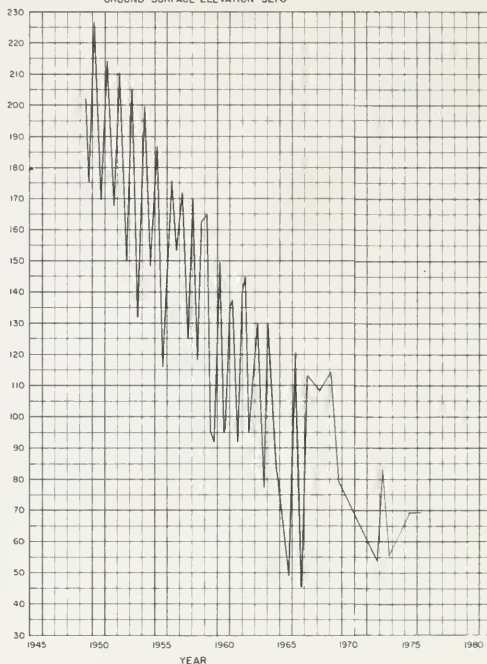


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET - U.S.C.&G.S. DATUM

SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 27S/24E-35C1, M.D.B. & M.
GROUND SURFACE ELEVATION 321.8'



DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)
WELL 3S/6E-25D1, M.D.B. & M.
GROUND SURFACE ELEVATION 63.5'

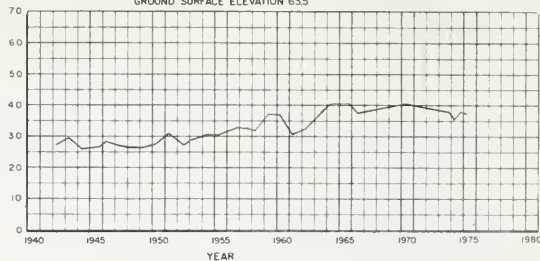


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S.C. & G.S. DATUM

ALPAUGH-ALLENSWORTH AREA (5-22.34)
WELL 24S/23E-21B2, M.D.B. & M.
 GROUND SURFACE ELEVATION 205'



MENDOTA-HURON AREA (5-22.47)
WELL 14S/15E-30M1, M.D.B. & M.
 GROUND SURFACE ELEVATION 187'

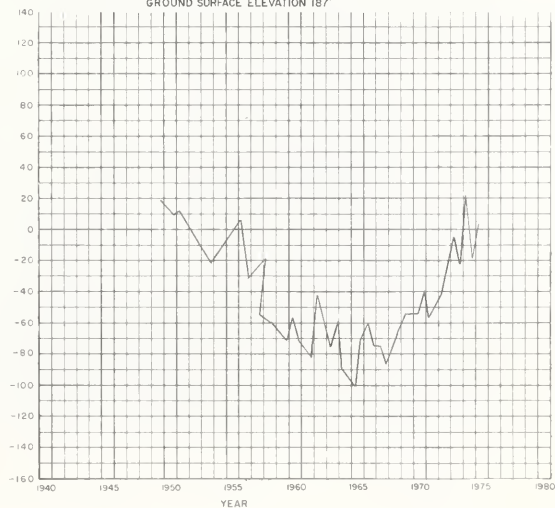


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
USCGS
DATUM

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-26K1, M.D.B. & M.
 GROUND SURFACE ELEVATION 334.3'



STONE CORRAL
IRRIGATION DISTRICT (5-22.22)
WELL 17S/26E-7R1, M.D.B. & M.
 GROUND SURFACE ELEVATION 364'

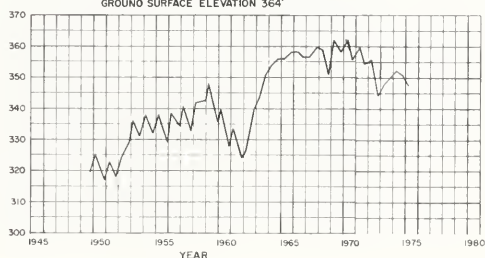
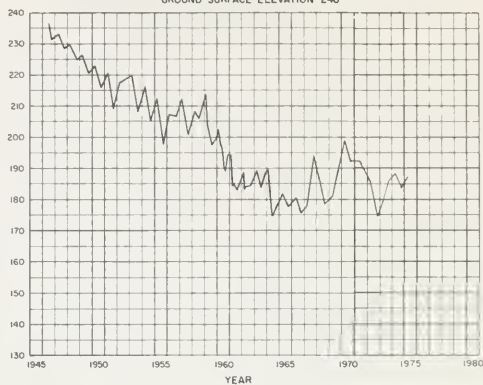


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
-
U.S.C.&G.S.
DATUM

CONSOLIDATED IRRIGATION DISTRICT (5-22.18)
WELL 16S/20E-22N1, M.D.B. & M.
GROUND SURFACE ELEVATION 248'



SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 22S/26E-15J1, M.D.B. & M.
GROUND SURFACE ELEVATION 371'

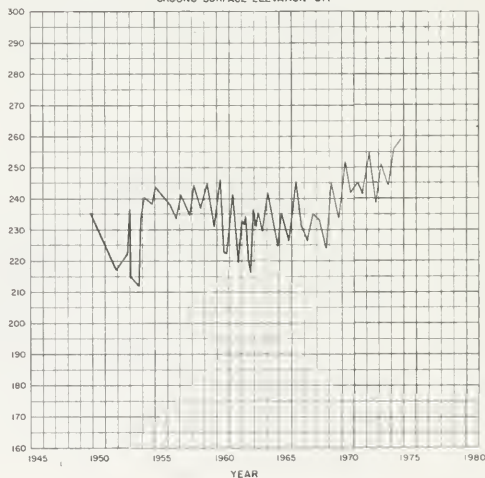


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

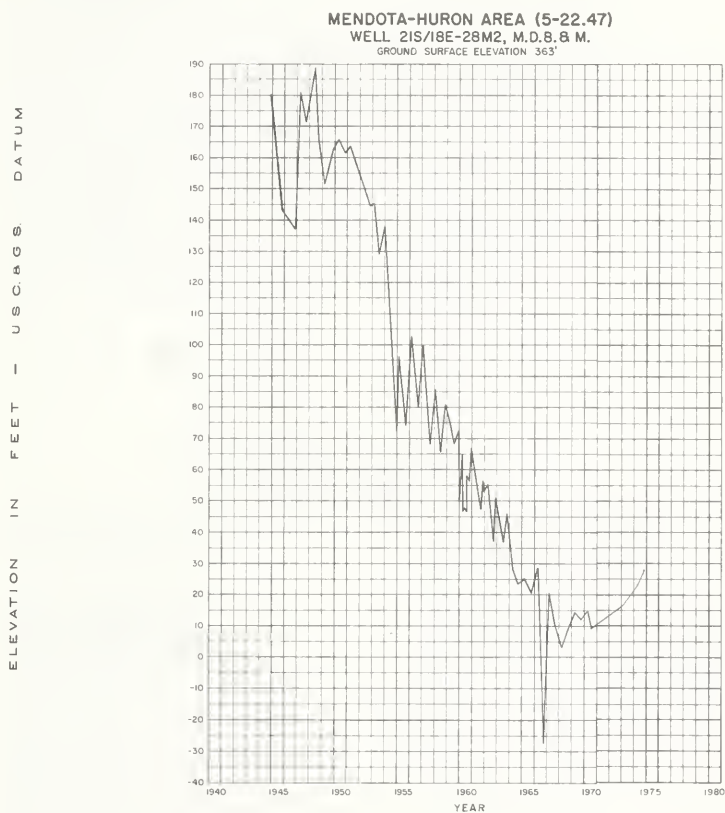


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S.C.G.S. DATUM

FRESNO SLOUGH AREA (5-22.17)
WELL 17S/18E-23A2, M.D.B.&M.

GROUND SURFACE ELEVATION 200'



EXETER IRRIGATION DISTRICT (5-22.26)
WELL 18S/27E-29D1, M.D.B.&M.

GROUND SURFACE ELEVATION 447'

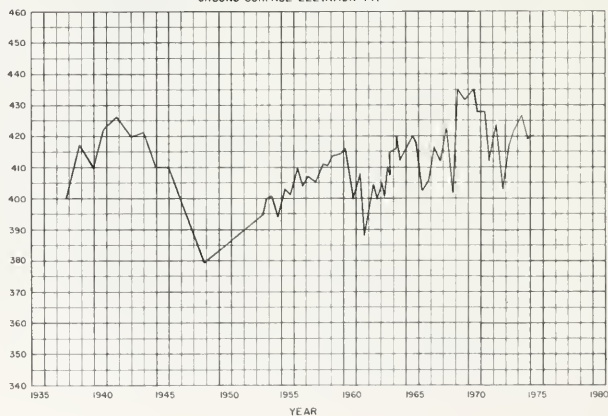
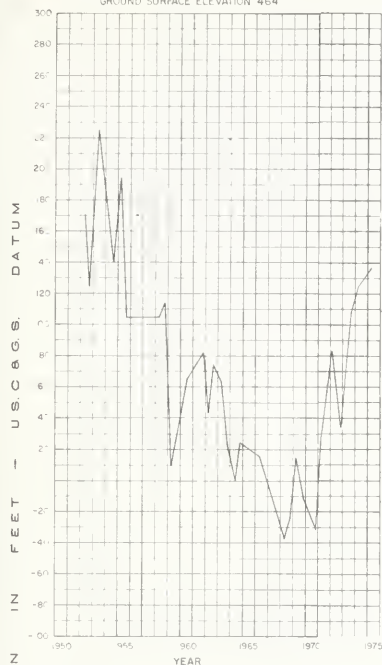
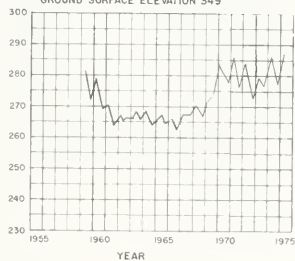


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

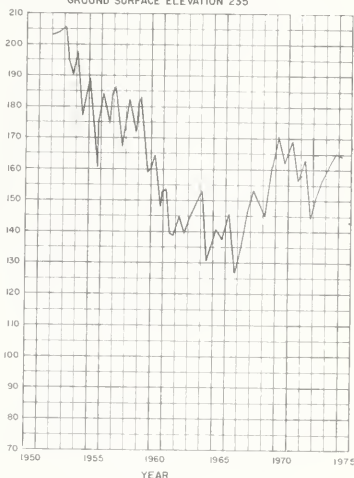
EDISON-MARICOPA AREA (5-22.41)
WELL 11N/21W-1N1, S.B.B. & M.
 GROUND SURFACE ELEVATION 464'



IVANHOE IRRIGATION DISTRICT (5-22.23)
WELL 17S/25E-35MI, M.D.B. & M.
 GROUND SURFACE ELEVATION 349'



KAWEAH DELTA
WATER CONSERVATION DISTRICT (5-22.24)
WELL 19S/22E-19A2, M.D.B. & M.
 GROUND SURFACE ELEVATION 235'



TULARE IRRIGATION DISTRICT (5-22.25)
WELL 20S/23E-10J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 248'

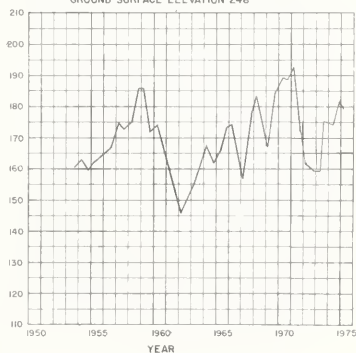


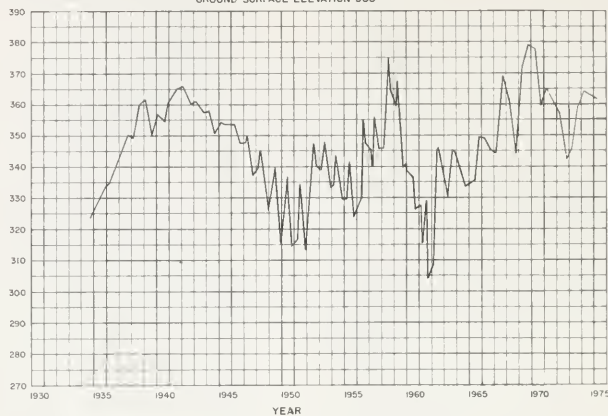
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET DATUM

ALTA IRRIGATION DISTRICT (5-22.19)

WELL 15S/24E-22D1, M.D.B.&M.

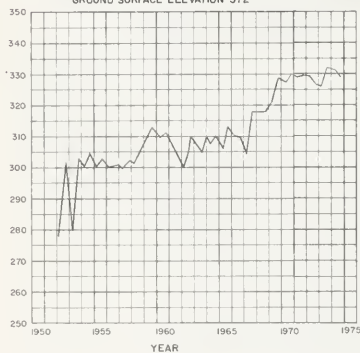
GROUND SURFACE ELEVATION 388'



**LINDSAY-STRATHMORE
IRRIGATION DISTRICT (5-22.27)**

WELL 20S/27E-6B1, M.D.B.&M.

GROUND SURFACE ELEVATION 372'



**ORANGE COVE
IRRIGATION DISTRICT (5-22.21)**

WELL 16S/25E-4C2, M.D.B.&M.

GROUND SURFACE ELEVATION 415'

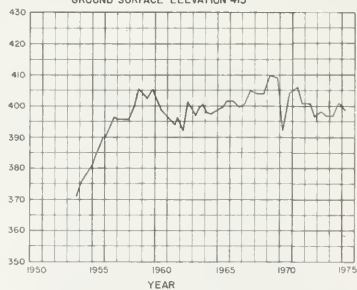


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

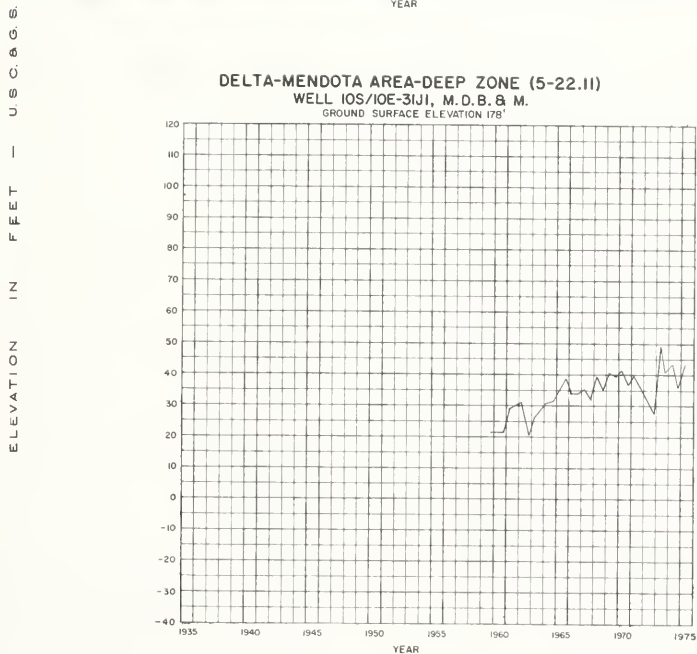
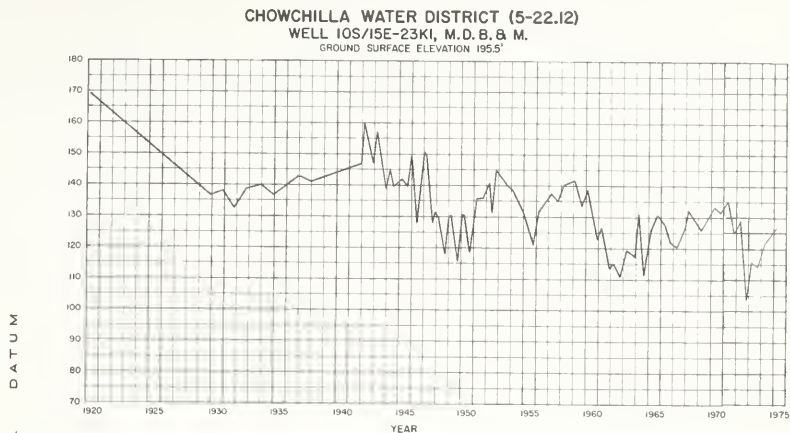


TABLE C-1
CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1974 - Spring 1975

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Oakdale Irrigation District	5-22.06		- 1.9
Modesto Irrigation District	5-22.07		+ 0.3
Turlock Irrigation District	5-22.08		+ 1.0
Merced Irrigation District	5-22.09		- 0.6
El Nido Irrigation District	5-22.10		- 0.6
Delta-Mendota Area	5-22.11	250	+ 1.2
Chowchilla Water District	5-22.12		+ 1.1
Madera Irrigation District	5-22.13		+ 0.6
West Chowchilla-Madera Area	5-22.14		- 4.4
Fresno Irrigation District	5-22.15		- 0.9
City of Fresno	5-22.16	60	- 0.4
Fresno Slough Area	5-22.17		- 0.3
Consolidated Irrigation District	5-22.18		+ 1.6
Alta Irrigation District	5-22.19		+ 3.6
Lower Kings River Area	5-22.20		
Shallow Zone			0.0
Deep Zone			+ 5.6
Orange Cove Irrigation District	5-22.21	62	- 1.7
Stone Corral Irrigation District	5-22.22	10	- 2.2
Ivanhoe Irrigation District	5-22.23		- 0.5
Kaweah-Delta Water Conservation District	5-22.24		+ 1.9
Tulare Irrigation District	5-22.25		+ 3.2
Exeter Irrigation District	5-22.26		- 1.4
Lindsay-Strathmore Irrigation District	5-22.27		- 3.7
Lindmore Irrigation District	5-22.28		+ 0.8
Porterville Irrigation District	5-22.29	16	- 1.4
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			+ 1.7
Deep Zone			Insufficient data to compute change
Vandalia Irrigation District	5-22.31	5	- 0.2
Saucelito Irrigation District	5-22.32		
Shallow Zone			+ 0.2
Deep Zone			Insufficient data to compute change
Pixley Irrigation District	5-22.33		
Shallow Zone			- 5.1
Deep Zone			- 0.1

TABLE C-1 (Cont.)
CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1974 - Spring 1975

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			- 5.8
Deep Zone			+ 0.5
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			+ 0.9
Deep Zone	Insufficient data to compute change		
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			+ 8.7
Deep Zone			- 1.9
North Kern Water Storage District	5-22.37		
Shallow Zone			+ 4.1
Deep Zone			-12.6
Shafter-Wasco Irrigation District	5-22.38		
Deep Zone			- 5.7
City of Bakersfield	5-22.39	20	- 2.1
Kern River Delta Area	5-22.40		
Shallow Zone			+ 0.4
Deep Zone			- 3.4
Edison-Maricopa Area	5-22.41		
Deep Zone			- 0.4
Buena Vista Water Storage District	5-22.42		
North Area			-10.3
South Area	Insufficient data to compute change		
Semitropic Water Storage District	5-22.43		
Shallow Zone			- 2.7
Deep Zone			-10.3
Avenal-McKittrick Area	5-22.44	27	- 1.2
Tulare Lake-Lost Hills Area	5-22.45	19	+ 2.8
Corcoran Irrigation District	5-22.46		
Shallow Zone			+ 1.6
Deep Zone			+ 5.8
Mendota-Huron Area	5-22.47		
Deep Zone			+17.8
Poso Resources Conservation District	5-22.48		+ 0.3
San Luis Canal Company	5-22.49		- 0.3

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1974-- Spring 1975

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Terra Bella Irrigation District	5-22.50	10	+ 0.1
Merced Bottoms	5-22.54		+ 1.1
Centerville Bottoms Area	5-22.64		- 1.9
Garfield Water District	5-22.65	11	+ 0.2
Kings County Water District	5-22.66		
Shallow Zone			+ 0.8
Deep Zone		Insufficient data to compute change	
Pleasant Valley Area	5-22.69	18	+ 8.3

^{a/} Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1975
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area*	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51 ^{a/} in feet	Net change in water level 1951-75 ^{b/} in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 ^{c/}	-22.3
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	-16.8
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 3.8
Centerville Bottoms	18.1	-----	+ 1.0	- 0.1
Alta	190.9	Alta Irrigation District	- 17.2 ^{c/}	+ 9.1
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+18.2
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 9.1
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	-10.1
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 9.4
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 5.0
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay- Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+82.7
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+42.6
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	-27.3 ^{e/} -10.2 ^{f/}
Middle Deer Creek	54.3	Terra Bella Irrigation District	- 61.8	- 3.4 ^{e/} -40.6 ^{f/}
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+28.0 ^{e/} +32.3 ^{g/}
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter- Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	-12.3 ^{e/} -54.1 ^{g/}
Rosedale	78.9	-----	- 36.3	-46.2 -25.7 ^{g/}
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 ^{d/}	-49.7 ^{g/}

^{a/} 1951 was the first year of substantial deliveries from the Friant-Kern Canal.

^{b/} Fall 1951 to spring 1975.

^{c/} Fall 1929 to fall 1951.

^{d/} Fall 1941 to fall 1951.

^{e/} Unconfined aquifer, spring 1961 to spring 1975; only one aquifer reported prior to 1961.

^{f/} Change shown for 1951 to 1971; insufficient data in pressure aquifer to compute changes for 1971-75.

^{g/} Pressure surface, spring 1961 to spring 1975; only one aquifer reported prior to 1961.

* These areas are shown on Plate 2.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 125.

Aquifer--Qualifications are based on the latest geologic knowledge of the aquifer system and construction of individual wells. The code symbols are as follows:

- | | | | |
|---|--|---|--|
| 0 | Unqualified due to lack of well construction and/or geology information. | 4 | Unconfined, outside Corcoran Clay area. |
| 1 | Unconfined, perforated above the Corcoran Clay. | 5 | Confined, aquitard other than Corcoran Clay. |
| 2 | Confined, perforated below the Corcoran Clay. | 6 | Composite, perforated above and below aquitard outside Corcoran Clay area. |
| 3 | Composite, perforated above and below the Corcoran Clay. | | |

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT (NM)

- | | | | |
|---|--------------------------|---|--------------------------|
| 0 | Measurement discontinued | 5 | Unable to locate well |
| 1 | Pumping | 6 | Well has been destroyed |
| 2 | Pump house locked | 7 | Special |
| 3 | Tape hung up | 8 | Casing leaking or wet |
| 4 | Can't get tape in casing | 9 | Temporarily inaccessible |

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

Agency Code	Agency	Agency Code	Agency
5001	U. S. Bureau of Reclamation	5605	Exeter Irrigation District
5050	Department of Water Resources	5606	Lindsay-Strathmore Irrigation District
5129	Kings County Water District	5607	Lindmore Irrigation District
5133	Kern County Water Agency	5608	Porterville Irrigation District
5200	City of Fresno	5609	Lower Tule Irrigation District
5520	Oakdale Irrigation District	5611	Saucelito Irrigation District
5521	Modesto Irrigation District	5612	Pixley Irrigation District
5524	Turlock Irrigation District	5613	Delano-Earlimart Irrigation District
5525	Merced Irrigation District	5614	Southern San Joaquin Municipal Utility District
5527	El Nido Irrigation District	5616	Shafter-Wasco Irrigation District
5528	Chowchilla Water District	5619	Terra Bella Irrigation District
5529	Poso Resources Conservation District	5620	James Irrigation District
5530	Madera Irrigation District	5622	Garfield Water District
5531	San Luis Canal Company	5631	Fresno Irrigation District
5600	Orange Cove Irrigation District	5636	Consolidated Irrigation District
5601	Stone Corral Irrigation District	5637	Alta Irrigation District
5602	Ivanhoe Irrigation District	5640	Buena Vista Water Storage District
5603	Kaweah Delta Water Conservation District	5644	Arvin-Edison Water Storage District
5604	Tulare Irrigation District		

**TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	
OAKDALE I.D.							TURLOCK I.D.							
				5-22.06								5-22.08		
01S/09E-16J01 M		119.0	4-18-75	65.6	53.4	5520	06S/10E-21A01 M		85.6	3-05-75	3.7	81.9	5524	
01S/09E-36A01 M		145.0	4-18-75	55.9	89.1	5520	06S/10E-28D01 M		83.6	3-05-75	10.1	73.5	5524	
01S/10E-19L01 M		146.5	4-18-75	57.8	88.7	5520	06S/11E-06M01 M		106.2	3-15-75	9.1	97.1	5524	
01S/10E-28J01 M		193.0	4-18-75	84.6	108.4	5520	06S/11E-08R01 M		116.2	3-05-75	11.5	104.7	5524	
02S/09E-26F01 M		132.0	4-18-75	54.6	77.4	5520	MERCED I.D.							
02S/10E-04H01 M		185.5	4-18-75	78.2	107.3	5520					5-22-09			
02S/10E-33J01 M		165.0	4-18-75	59.2	105.8	5520	06S/12E-22N01 M	1	150.0	11-13-74	19.0	131.0	5050	
02S/11E-29H01 M		218.0	4-18-75	90.5	127.5	5520	06S/12E-22N01 M		153.3	3-03-75	15.3	134.7	5520	
02S/11E-31R01 M		192.0	4-18-75	77.2	114.8	5520	06S/14E-32R01 M	1	178.1	3-04-75	15.1	163.0	5525	
02S/12E-31R01 M		190.0	4-18-75	41.4	148.6	5520	07S/10E-01M01 M	1	90.7	3-04-75	7.8	82.9	5525	
03S/10E-15A01 M		152.0	4-18-75	44.9	107.1	5520	07S/11E-01M01 M		118.0	11-12-74	13.0	105.0	5050	
03S/11E-18R01 M		162.0	4-18-75	NM-1		5520	07S/11E-13R01 M	1	100.6	3-03-75	8.7	97.9	5525	
MODESTO I.D.							07S/12E-12D01 M	1	144.0	11-12-74	1.0	143.0	5050	
				5-22.07				07S/12E-12D01 M		144.1	3-03-75	14.1	129.9	5525
02S/08E-25P01 M		94.0	3-04-75	37.6	56.4	5521	07S/12E-12R01 M	1	147.3	3-03-75	16.9	130.4	5525	
02S/09E-30F01 M		93.0	11-13-74	24.0	69.0	5050	07S/13E-26D01 M	1	155.4	11-12-74	11.1	144.7	5050	
02S/09E-31D01 M		97.0	3-04-75	34.2	62.8	5521	07S/13E-26D01 M		12.1	3-03-75	12.1	143.7	5525	
03S/07E-12C01 M		47.0	11-13-74	9.8	37.2	5050	07S/14E-11R01 M	1	191.8	11-12-74	13.4	178.4	5050	
03S/07E-35A02 M		40.0	11-13-74	4.1	35.9	5050	07S/14E-11R01 M		13.8	3-04-75	13.8	178.0	5525	
03S/08E-03N01 M		65.0	3-04-75	16.9	48.1	5521	07S/14E-16R01 M	1	187.3	3-05-75	16.5	170.8	5525	
03S/08E-24C02 M		71.0	3-04-75	20.0	53.0	5521	08S/12E-01D01 M	1	120.1	3-03-75	7.9	112.2	5525	
03S/09E-08D01 M		92.0	3-04-75	28.2	63.8	5521	08S/13E-09R01 M	1	135.0	3-03-75	5.4	129.6	5525	
03S/09E-11M01 M		99.0	3-04-75	23.2	75.8	5521	08S/14E-01A01 M	1	197.5	3-04-75	11.9	185.6	5525	
03S/09E-26F01 M		100.0	3-26-75	NM-0		5050	08S/14E-10M01 M	1	172.6	11-12-74	8.1	164.5	5050	
03S/10E-06G01 M		133.1	3-04-75	35.2	97.9	5521	08S/14E-10M01 M		7.4	3-03-75	7.4	165.2	5525	
03S/10E-29K01 M		118.0	3-04-75	47.9	70.1	5521	EL RIDO I.D.							
03S/10E-32G01 M		120.0	3-04-75	58.7	61.3	5521					5-22.10			
03S/10E-34D01 M		125.0	3-26-75	NM-6		5050	09S/13E-14H01 M		133.0	10-07-74	NM-7		5527	
04S/08E-03F01 M		60.0	3-04-75	16.7	43.3	5521	09S/13E-14H01 M		74.7	2-05-75	74.7	50.3		
TURLOCK I.D.							09S/14E-20B01 M	1	152.0	10-07-74	82.4	69.6	5527	
				5-22.08				09S/14E-20B01 M		66.0	2-05-75	66.0	86.0	
04S/08E-22R01 M	1	55.0	11-13-74	10.0	45.0	5050	DELTA-MENDOTA AREA							
04S/08E-27D01 M		55.0	3-05-75	10.8	44.2	5524					5-22.11			
04S/09E-21N01 M		75.0	3-05-75	9.7	65.3	5524	04S/06E-04N01 M	2	196.0	10-18-74	164.3	31.7	5607	
04S/10E-21R01 M	1	109.0	3-05-75	15.1	93.9	5524	04S/06E-04N01 M		4-07-75	151.1	44.9	5001		
04S/11E-29H01 M	1	131.0	3-05-75	DRY		5524	04S/06E-09R01 M	1	166.3	10-19-74	118.4	47.9	5607	
04S/11E-31R01 M		128.0	3-05-75	12.1	115.9	5524	04S/06E-09R01 M		4-07-75	115.3	51.0	5001		
05S/08E-01N01 M		53.0	3-05-75	5.7	47.3	5524	04S/07E-27M01 M	1	68.0	10-23-74	22.6	45.4	5607	
05S/08E-10A01 M		44.0	3-05-75	12.3	31.7	5524	04S/07E-27M01 M		4-14-75	22.9	45.1	5001		
05S/09E-04A01 M		70.0	11-13-74	10.0	60.0	5050	05S/07E-23L01 M	1	130.4	10-22-74	79.1	51.3	5607	
05S/09E-14R01 M		75.0	3-05-75	7.2	67.8	5524	05S/07E-23L01 M		4-08-75	73.6	56.8	5001		
05S/09E-24N01 M		75.0	3-05-75	8.3	66.7	5524	05S/07E-23L01 M		138.0	10-22-74	82.1	55.9	5607	
05S/09E-28A01 M		63.0	3-05-75	4.7	58.3	5524	05S/07E-23L01 M		4-08-75	NM-9			5001	
05S/09E-34J01 M		64.0	11-13-74	14.3	49.7	5050	05S/08E-12R01 M	1	90.9	10-22-74	7.4	83.5	5607	
05S/10E-19R01 M		82.0	3-05-75	6.7	75.3	5524	05S/08E-12R01 M		4-08-75	7.4	83.5	5001		
05S/10E-21R01 M		92.0	3-05-75	10.7	81.3	5524	06S/07E-12P01 M		248.3	10-17-74	13.2	235.1	5050	
05S/11E-06J02 M	1	124.0	11-13-74	7.0	117.0	5050	06S/07E-12P01 M		14.5	3-26-75	14.5	233.8		
05S/11E-21N01 M		125.0	3-05-75	10.1	114.9	5524	06S/08E-21R02 M	2	133.5	10-17-74	34.0	99.5	5050	
05S/11E-30A01 M		117.0	3-05-75	13.4	103.6	5524	06S/08E-21R02 M		3-26-75	32.0	101.5			
05S/11E-32H01 M		115.5	3-05-75	8.8	106.7	5524	06S/08E-27J01 M	1	114.5	10-17-74	41.0	73.5	5050	
06S/09E-15R01 M		60.0	3-05-75	3.8	56.2	5524	06S/08E-27J01 M		3-26-75	46.0	68.5			
							06S/08E-29J01 M	2	190.0	3-26-75	93.0	97.0	5050	
							07S/08E-22L01 M	1	127.9	10-18-74	43.3	84.6	5050	
							07S/08E-22L01 M		3-27-75	45.0	82.9			
							07S/09E-04R01 M	1	65.5	10-18-74	17.0	48.5	5050	
							07S/09E-04R01 M		3-27-75	12.0	53.5			
							07S/09E-26N01 M	1	68.4	10-16-74	9.2	59.2	5050	
							07S/09E-26N01 M		3-28-75	5.0	63.4			
							08S/08E-01N01 M	1	123.2	10-15-74	15.5	107.7	5050	
							08S/08E-01N01 M		3-25-75	18.5	104.7			
							08S/08E-15J01 M	2	172.8	3-25-75	25.5	147.3	5050	
							08S/09E-26H01 M	2	75.0	10-15-74	38.9	36.1	5050	
							08S/09E-26H01 M		3-27-75	14.0	61.1			
							08S/09E-26H03 M	1	75.0	10-15-74	5.5	69.5	5050	
							08S/09E-26H03 M		3-27-75	1.0	74.0			
							08S/10E-21L04 M		75.0	10-15-74	6.4	68.6	5050	
							08S/10E-21L04 M		3-27-75	1.0	74.1			

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELTA-HENDOTA AREA							MADERA I.D.						
5-22.11							5-22.13						
09S/08E-24A01 M	1	157.0	10-17-74 3-25-75	9.0 19.0	148.0 138.0	5050	11S/16E-06A01 M	196.0	10-07-74 2-06-75	77.4 66.8	118.6 129.2	5530	
09S/09E-14N01 M		96.0	10-17-74 3-28-75	60.0 35.0	36.0 61.0	5050	11S/16E-10N01 M	204.0	10-07-74 2-06-75	72.0 68.3	135.7 135.7	5530	
09S/09E-18N01 M	2	153.6	10-17-74 3-27-75	32.0 29.0	121.6 124.6	5050	11S/17E-27C01 M	1 250.0	10-04-74 2-05-75	75.4 74.7	174.6 175.3	5530	
09S/09E-23L01 M	2	100.0	10-17-74 3-28-74	65.0 47.0	35.0 53.0	5050	11S/18E-20N01 M	1 272.5	10-01-74 1-30-75	88.2 71.4	184.3 201.1	5530	
09S/10E-19801 M	3	84.0	10-17-74 3-28-75	NM-5 NM-0		5050	11S/18E-27M01 M	1 284.0	10-01-74 1-30-75	86.3 82.5	197.7 201.5	5530	
09S/10E-23J01 M	2	87.0	10-16-74 3-28-75	45.0 34.0	42.0 53.0	5050	12S/16E-23A01 M	205.0	10-03-74 2-03-75	96.7 84.8	108.3 120.2	5530	
09S/11E-09A01 M	1	85.0	3-00-75	6.0	79.0	5531	12S/17E-08G01 M	230.0	10-03-74 2-04-75	90.2 83.6	139.8 146.4	5530	
09S/11E-29R01 M	1	90.0	10-16-74 3-26-75	NM-1 4.0	86.0	5050	12S/17E-21H01 M	1 228.0	10-03-74 2-03-75	72.3 69.0	155.7 159.0	5530	
10S/10E-02R01 M	1	99.5	10-16-74 3-26-75	19.0 12.0	81.5 87.5	5050	12S/17E-26C01 M	235.0	10-03-74 2-03-75	60.6 57.2	174.4 177.8	5530	
10S/10E-31G01 M	2	191.1	10-16-74 3-26-75	152.0 162.0	39.1 29.1	5050	12S/17E-34R01 M	234.0	10-03-74 2-03-75	60.9 50.0	173.1 184.0	5530	
10S/10E-32N01 M	1	189.5	10-16-74 3-26-75	80.0 75.0	109.5 114.5	5050	12S/18E-13R01 M	288.0	10-01-74 1-30-75	82.2 80.0	205.8 208.0	5530	
10S/11E-27E02 M	2	101.3	10-16-74 3-27-75	65.0 55.0	36.3 46.3	5050	12S/18E-21G01 M	1 265.0	10-02-74 1-31-75	74.6 71.1	190.4 193.9	5530	
11S/10E-11J01 M	1	157.3	10-15-74 3-25-75	12.0 10.0	145.3 147.3	5050	12S/18E-21H01 M	267.0	10-02-74 1-31-75	70.3 66.9	196.7 200.1	5530	
11S/10E-22Q01 M		246.8	10-15-74 3-26-75	98.0 100.0	148.8 146.8	5050	12S/19E-28A01 M	4 107.5	10-09-74 1-27-75	91.2 90.5	216.3 217.0	5001	
11S/11E-02J02 M	1	106.0	10-15-74 3-25-75	2.0 2.0	104.0 104.0	5050	WEST CHONCHILLA-MADERA AREA						
11S/11E-22Q01 M	2	114.0	10-15-74 3-25-75	9.5 12.0	104.5 102.0	5050	10S/13E-22R01 M	119.0	9-24-74 1-21-75	26.2 24.1	92.8 94.9	5001	
11S/11E-22Q03 M	3	114.0	10-15-74 3-25-75	13.0 12.0	101.0 102.0	5050	10S/14E-08B03 M	147.0	10-08-74 2-06-75	99.5 90.5	47.5 56.5	5528	
12S/12E-06D01 M		144.0	10-16-74 3-24-75	6.4 5.7	137.6 138.3	5607 5001	10S/14E-31N01 M	130.0	9-24-74 1-21-75	45.8 40.0	84.2 90.0	5001	
12S/12E-25J01 M		181.1	10-17-74 3-25-75	5.7 3.5	175.4 177.6	5607 5001	10S/14E-35F01 M	151.0	10-07-74 1-21-75	93.3 89.5	57.7 71.5	5001	
12S/13E-14N01 M		150.0	10-16-74 3-26-75	23.5 22.1	126.5 127.9	5607 5001	11S/14E-13R01 M	150.0	9-25-74 1-21-75	NM-1 NM-1		5001	
CHONCHILLA W.O.							11S/15E-33E01 M	156.0	9-25-74 1-21-75	82.6 60.5	73.4 95.5	5001	
09S/14E-25R01 M	1	185.0	10-07-74 1-31-75	67.5 64.5	117.5 120.5	5528	11S/15E-33P01 M	158.0	9-25-74 1-21-75	80.4 57.8	77.6 100.2	5001	
09S/15E-25J02 M	1	230.0	10-01-74 1-31-75	40.0 41.5	190.0 188.5	5528	12S/15E-14L01 M	1 167.0	9-28-74 1-23-75	NM-7 67.3		5001	
09S/15E-27A01 M		216.5	11-12-74 3-12-75	119.0 NM-0	97.5	5050	13S/16E-02C01 M	194.0	10-02-74 2-03-75	89.5 71.3	104.5 122.7	5530	
09S/16E-22R01 M		267.0	10-03-74 1-30-75	45.5 47.0	221.5 220.0	5528	FRESNO I.D.						
09S/17E-19L01 M	1	292.0	10-03-74 1-30-75	113.5 112.5	178.5 179.5	5528	12S/20E-14A01 M	4 365.0	9-27-74 2-04-75	NM-9 92.0		5001	
09S/17E-25R01 M	1	338.0	9-27-74 1-21-75	76.2 63.9	261.8 274.1	5001	12S/21E-34D01 M	4 387.7	10-01-74 2-01-75	44.4 42.3	343.3 345.4	5631	
09S/18E-33Q01 M	4	362.0	9-27-74 1-21-75	58.5 54.8	303.5 307.2	5001	12S/22E-21E01 M	4 473.0	9-24-74 1-23-75	15.3 15.0	457.7 458.0	5001	
10S/14E-01A01 M		179.0	10-07-74 1-31-75	75.7 75.0	103.3 104.0	5528	13S/17E-22R01 M	4 220.8	10-01-74 2-01-75	34.0 17.3	186.8 181.5	5631	
10S/14E-01R02 M		177.0	10-07-74 1-31-75	68.5 68.0	108.5 109.0	5528	13S/17E-33D01 M	211.0	10-10-74 1-23-75	56.0 53.1	155.0 157.9	5001	
10S/14E-24R01 M		167.0	10-07-74 2-04-75	86.5 85.0	80.5 82.0	5528	13S/18E-10P01 M	258.0	10-10-74 1-24-75	46.5 49.0	211.5 209.0	5001	
10S/15E-02Q01 M		212.5	10-02-74 1-31-75	114.0 110.5	98.5 102.0	5528	13S/18E-34D01 M	245.0	10-10-74 1-24-75	56.9 56.0	188.1 189.0	5001	
10S/15E-23K01 M		195.5	10-02-74 2-05-75	71.5 69.0	124.0 126.5	5528	13S/19E-09Q01 M	4 288.2	10-01-74 2-01-75	77.0 NM-0	211.2 5631		
10S/15E-27D03 M		184.0	10-02-74 2-05-75	79.5 72.5	104.5 111.5	5528	13S/19E-16K01 M	290.0	10-10-74 1-24-75	81.5 76.5	208.5 213.5	5001	
10S/16E-09E01 M		232.0	10-10-74 2-04-75	95.0 92.9	137.0 139.1	5528	13S/20E-12H01 M	343.4	10-01-74 2-01-75	NM-1 76.5		5631	
10S/16E-29R01 M	1	208.0	10-02-74 2-05-75	84.0 77.5	124.0 130.5	5528	13S/21E-31P01 M	4 406.5	10-01-74 2-01-75	30.9 34.5	375.6 372.0	5631	
MADERA I.D.							14S/18E-08J01 M	4 227.4	10-02-74 2-01-75	72.8 65.9	154.6 161.5	5631	
10S/19E-16G01 M	4	390.0	9-27-74 1-21-75	16.7 23.1	373.3 366.9	5001	14S/19E-20B02 M	4 245.0	10-02-74 2-01-75	48.5 NM-6	196.5 5631		
							14S/20E-06J01 M	1 279.4	2-01-75	NM-1		5631	

**TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
FRESNO I.D.							ALTA I.D.						
5-22.15							5-22.19						
158/20E-13E02 M		282.5	10-02-74 2-01-75	37.8 36.1	249.7 246.4	5631	168/24E-21J01 M	1	336.0	10-01-74 2-03-75	NM-1 27.1	308.4	5637
CITY OF FRESNO							168/25E-29A01 M	4	364.0	10-02-74 2-03-75	36.1 29.3	327.9 334.7	5637
135/20E-21J01 M		310.0	4-00-75	96.3	213.7	5200	178/22E-25A01 M	4	275.0	10-02-74 2-04-75	47.9 38.1	227.1 236.9	5637
135/20E-23B01 M		325.0	4-00-75	93.2	231.8	5200	178/22E-25J01 M	4	275.0	10-02-74 2-04-75	44.3 42.9	237.0 232.1	5637
135/20E-28E01 M		299.3	10-03-74 4-01-75	87.0 91.5	212.3 207.8	5200	178/24E-15A03 M	302.0	10-03-74 1-22-75	30.1 22.2	271.9 279.8	5001	
135/20E-35H02 M		305.3	4-00-75	80.5	224.8	5200	178/25E-10C01 M	4	335.0	10-03-74 2-03-75	31.3 31.4	303.7 303.6	5637
148/20E-10M01 M		291.4	10-03-74 4-00-75	76.1 74.5	215.3 216.9	5200	178/25E-18B01 M	4	321.0	10-03-74 2-03-75	51.8 49.6	269.2 271.4	5637
FRESNO SLOUGH AREA							LOWER KINGS RIVER AREA						
5-22.17							5-22.20						
148/15E-25H02 M		160.0	10-11-74 1-23-75	10.5 20.4	129.5 139.6	5001	178/19E-14J01 M	217.0	11-07-74 2-21-75	81.0 84.0	136.0 133.0	5050	
148/16E-03C01 M		177.0	10-10-74 1-22-75	76.5 67.5	100.5 109.5	5001	178/20E-20D01 M	1	223.0	11-07-74 2-21-75	68.0 72.0	155.0 151.0	5050
148/16E-08D01 M		165.0	10-11-74 1-22-75	NM-1 42.2	122.8	5001	178/21E-11K01 M	257.0	11-06-74 2-19-75	37.0 23.0	220.0 234.0	5050	
148/16E-22N01 M	1	164.0	10-11-74 1-13-75	33.0 28.3	131.0 135.7	5001	188/19E-35J02 M	3	211.0	11-06-74 2-18-75	116.0 110.0	95.0 101.0	5050
148/17E-25A01 M	1	210.0	10-15-74 1-13-75	113.3 101.9	96.7 108.1	5620	188/20E-16A01 M	1	230.0	11-06-74 2-19-75	7.5 8.0	222.5 222.0	5050
158/16E-12C03 M		169.5	11-07-74 1-16-75	40.0 39.0	129.5 129.7	5620	188/21E-10B01 M	1	254.0	11-06-74 1-30-75	64.0 62.7	190.0 191.3	5050
158/17E-22R01 M	1	185.0	10-02-74	NM-6	5620	5620	198/19E-25A01 M	1	208.0	11-06-74 2-18-75	5.4 2.0	202.6 206.0	5050
158/18E-07A02 M		204.0	10-17-74 1-15-75	126.3 NM-5	77.7	5620	ORANGE COVE I.D.						
168/18E-03J01 M		206.0	2-24-75	NM-1	5050	5050	148/24E-29C02 M	4	430.5	10-03-74 2-04-75	NM-1 41.5	389.0	5600
168/18E-33P01 M		195.0	2-21-75	152.0	43.0	5050	148/25E-30D01 M	1	510.0	9-30-74 1-20-75	24.0 24.1	486.0 485.9	5001
168/19E-34P01 M		220.0	11-07-74 2-21-75	125.0 115.0	95.0 105.0	5050	158/24E-14H01 M	4	415.0	10-01-74 2-04-75	24.8 27.4	390.2 387.6	5000
178/17E-12H01 M	1	199.0	12-19-74	150.0	49.0	5050	168/25E-04C02 M	4	415.0	10-04-74 2-05-75	14.0 16.2	401.0 398.8	5600
178/18E-23A02 M	1	200.0	11-07-74 2-20-75	79.0 95.0	121.0 105.0	5050	STONE CORRAL I.D.						
CONSOLIDATED I.D.							5-22.22						
5-22.18							178/25E-01D01 M	1	355.0	10-03-74 2-03-75	NM-1 NM-9		5637
148/22E-22N01 M	4	355.7	10-01-74 2-03-75	27.7 27.8	328.0 327.9	5601	178/26E-07R01 M	364.0	10-07-74 1-23-75	13.1 16.3	350.9 347.7	5619	
158/19E-24M01 M	4	245.7	10-01-74 2-03-75	83.9 81.2	161.8 164.5	5601	IVANHOE I.D.						
158/20E-28A01 M		264.0	11-00-75	NM-0	5636	5636	178/25E-27R01 M	4	350.0	10-01-74 2-04-75	77.2 71.7	272.8 278.3	5602
158/21E-15J001 M	4	301.0	10-01-74 2-03-75	26.8 24.6	274.2 276.4	5601	178/25E-35M01 M	4	349.0	10-01-74 2-04-75	70.9 61.5	278.1 287.5	5602
158/22E-16A01 M	4	337.0	10-01-74 2-04-75	24.6 25.2	312.4 311.8	5601	178/25E-36G01 M	4	365.0	10-01-74 2-04-75	63.4 61.5	301.6 303.5	5602
158/22E-29M01 M	4	321.0	10-03-74 2-04-75	24.3 25.9	296.7 295.1	5601	178/26E-32M01 M	4	385.0	10-01-74 2-04-75	62.5 57.1	322.5 327.9	5602
168/19E-14A01 M	4	235.0	10-01-74 2-04-75	109.5 99.4	125.5 135.6	5601	178/26E-34D01 M	4	416.0	10-01-74 2-04-75	62.2 60.5	353.8 355.5	5602
168/20E-22N01 M	4	248.0	10-02-74 2-04-75	64.2 60.5	183.8 187.5	5601	KAMBAH-DELTA W.C.D.						
168/21E-22N01 M	4	271.0	10-02-74 2-04-75	43.1 40.3	227.9 230.7	5636	5-22.24						
168/22E-23R01 M	4	297.0	10-02-74 2-04-75	21.5 21.9	275.5 275.1	5636	178/25E-15P01 M	1	340.0	10-03-74 1-22-75	82.4 75.2	257.6 264.8	5001
178/22E-03C01 M	4	286.0	10-02-74 2-04-75	19.2 20.6	266.8 265.4	5636	178/26E-17P02 M	1	385.0	10-03-74 1-23-75	16.7 22.0	368.3 363.0	5001
ALTA I.D.							178/27E-34P01 M	1	470.0	10-04-74 1-23-75	12.7 13.0	457.3 457.0	5001
148/23E-36R01 M	4	391.0	10-01-74 1-31-75	46.8 47.3	344.2 343.7	5637	188/22E-30E02 M	3	248.0	10-01-74 2-13-75	95.0 89.0	153.0 159.0	5603
148/24E-31P01 M	4	395.0	10-01-74 1-31-75	39.0 46.8	356.0 348.2	5637	188/23E-12H01 M	282.5	10-02-74 2-20-75	NM-9 47.5		235.0	5603
158/23E-23A02 M	4	358.0	10-01-74 1-31-75	43.5 42.4	314.5 315.6	5637	188/23E-34A01 M	271.0	9-23-74 2-11-75	112.7 96.7	158.3 174.3	5129	
158/24E-22D01 M	4	388.0	10-01-74 1-31-75	25.4 26.3	362.6 361.7	5637	188/24E-26A01 M	4	312.0	10-12-74 2-21-75	11.0 NM-1	301.0	5603
168/23E-23E01 M	4	314.0	10-04-74 2-05-75	21.0 21.6	293.0 292.4	5637							

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE		
KAWAHA-DELTA W.C.O.							PORTERVILLE I.D.								
5-22.24							5-22.29								
18S/25E-12Q01 M	4	363.0	10-04-74	61.5	301.5	5603	21S/26E-12A01 M	M	372.0	10-01-74	30.3	341.7	5608		
			2-13-75	45.5	317.5				2-07-75	29.1	342.9				
18S/25E-23F01 M	4	338.0	10-04-74	33.0	305.0	5603	21S/27E-21C01 M	M	409.0	10-01-74	17.5	391.5	5608		
			2-26-75	24.0	314.0				2-07-75	NN-5					
18S/26E-27E01 M	4	390.0	10-04-74	NN-1	23.0	367.0	5603	21S/27E-28E01 M	M	4	420.0	10-01-74	24.1	395.9	5608
			2-25-75						2-07-75	19.9		400.1			
18S/26E-30N01 M		367.0	10-04-74	15.5	351.5	5603	22S/26E-01J01 M	M	4	395.0	10-02-74	72.8	322.2	5608	
			2-25-75	19.5	347.5				2-07-75	69.1		325.9			
19S/22E-01N02 M	1	245.0	10-10-74	61.5	183.5	5603	22S/27E-06O01 M	M	4	397.0	2-07-75	50.5	346.5	5608	
			2-20-75	64.5	180.5				10-02-74	NN-0					
19S/22E-36E01 M	1	234.3	9-19-74	75.3	159.0	5129	22S/27E-10A01 M	M	4	455.0	10-02-74			5608	
			2-06-75	75.0	159.3				2-06-75	15.9		416.1	5608		
19S/25E-07K01 M		318.0	10-07-74	67.0	251.0	5603	22S/27E-04A01 M	M	4	432.0	2-06-75	18.2	413.8		
			2-21-75	68.0	250.0		LOWER TULE RIVER I.O.								
19S/26E-34R02 M	1	341.0	9-23-74	90.1	250.9	5001	21S/23E-22J01 M	M	1	221.5	10-09-74	59.0	162.5	5603	
			1-20-75	63.5	277.5				2-24-75	57.0		164.5			
20S/22E-10C01 M	1	227.0	10-10-74	88.0	139.0	5603	21S/24E-15H01 M	M	1	253.0	10-17-74	NN-4		5609	
TULARE I.D.									2-19-75	NN-1					
19S/23E-14R01 M	1	270.0	10-03-74	NN-1	70.0	200.0	5604	21S/24E-31O01 M	M	230.0	10-17-74	62.5	167.5	5609	
			2-11-75	70.0	200.0				2-18-75	65.1		164.9			
19S/23E-32H01 M	1	250.5	10-03-74	75.0	175.5	5604	21S/24E-35N01 M	M	251.0	10-15-74	82.2	168.8	5609		
			2-11-75	74.0	176.5				2-18-75	75.0		176.0			
19S/24E-16P01 M		290.0	10-03-74	87.0	203.0	5604	21S/25E-08H01 M	M	286.0	10-18-74	85.9	200.1	5609		
			2-12-75	76.0	214.0				2-14-75	62.5		223.5			
19S/24E-27O01 M	1	290.0	10-01-74	82.5	207.5	5604	21S/26E-06O02 M	M	322.0	10-09-74	66.4	255.6	5609		
			2-12-75	NN-1					2-12-75	56.0		266.0			
19S/25E-17A02 M	4	328.0	10-01-74	47.5	280.5	5604	21S/26E-10E01 M	M	350.0	10-08-74	36.7	313.3	5609		
			2-06-75	49.5	278.5				2-12-75	34.1		313.9			
20S/23E-08B02 M	1	241.0	10-04-74	82.5	158.5	5603	22S/24E-09A01 M	M	245.0	10-11-74	124.1	119.9	5609		
			2-11-75	76.5	164.5	5604			2-19-75	123.7		120.3			
20S/24E-16H01 M		273.0	10-01-74	95.0	178.0	5603	22S/24E-15A01 M	1	253.0	10-11-74	134.0	119.0	5609		
			2-10-75	81.0	192.0				2-19-75	129.6		123.4			
20S/24E-30J02 M	1	250.0	10-02-74	101.0	149.0	5603	22S/25E-10E01 M	M	296.0	10-10-74	91.7	204.3	5609		
			2-10-75	79.5	170.5	5604			2-10-75	90.6		205.4			
21S/23E-05P01 M	1	222.0	10-02-74	68.0	154.0	5604	22S/25E-15A01 M	1	303.0	10-10-74	129.1	173.9	5609		
			2-10-75	NN-1					2-10-75	127.9		175.1			
EXETER I.D.							22S/26E-06A01 M	4	337.0	10-01-74	106.0	231.0	5611		
18S/26E-25K01 M	4	436.0	10-01-74	NN-6		5605			1-29-75	98.5		238.5			
18S/26E-34P02 M	4	391.0	10-01-74	42.5	345.7	5605	VANDALIA I.D.								
			2-03-75	42.5	348.5		22S/28E-07Q01 M	M	524.0	10-01-74	NN-1		5001		
18S/27E-29D01 M	4	447.0	10-01-74	27.4	419.6	5605			1-21-75	119.0		405.0			
			2-03-75	26.8	420.2		22S/28E-17N01 M	M	577.0	10-1-74	165.7	411.3	5001		
19S/26E-14E01 M	4	375.0	10-01-74	66.3	308.7	5605			1-21-75	NN-6					
			2-03-75	62.8	312.2		22S/28E-18A01 M	M	535.0	10-01-74	132.6	402.4	5001		
19S/26E-23E01 M	4	359.5	10-01-74	65.2	294.3	5605			1-21-75	105.6		429.4			
			2-03-75	59.8	299.7		SAUCELITO I.O.								
LINDSAY-STRATHMORE I.D.							5-22.32								
5-22.27							22S/26E-15J01 M	4	371.0	10-01-74	112.0	259.0	5611		
19S/27E-29O01 M	4	385.0	10-03-74	46.3	338.7	5606			1-30-75	NN-1					
			2-05-75	45.9	339.1		23S/26E-02R01 M	M	4	396.0	10-04-74	167.5	228.5	5611	
20S/27E-06B01 M	4	372.0	10-03-74	42.7	329.3	5606			1-29-75	149.0		247.0			
			2-05-75	NN-4			23S/26E-10F01 M	M	375.0	10-03-74	173.5	201.5	5611		
20S/27E-16A01 M	M	4	426.0	10-03-74	23.8	402.2			1-29-75	NN-1					
			2-05-75	26.8	399.2	5006	PIXLEY I.D.								
20S/27E-21F01 M	M	4	414.0	10-03-74	26.2	387.8	22S/25E-25N01 M	M	310.0	9-26-74	NN-1		5612		
			2-05-75	28.2	385.8				2-07-75	NN-7					
20S/27E-29J01 M	M	4	406.0	10-03-74	NN-1	5006	23S/24E-16R01 M	M	222.0	9-30-74	138.4	83.6	5612		
			2-05-75	21.0	385.0				2-05-75	104.5		117.5			
LINDHORE I.D.							23S/25E-14C01 M	M	4	300.0	9-24-74	63.8	236.2	5612	
20S/26E-01P01 M	M	4	360.0	9-30-74	68.2	291.8			2-03-75	NN-9					
			2-03-75	57.9	302.1	5607	23S/26E-08R01 M	M	345.0	9-24-74	180.4	164.6	5612		
20S/26E-22C02 M	M	4	341.0	10-01-74	79.0	262.0			2-03-75	168.0		177.0			
			2-04-75	75.0	266.0	5607	ALPAUGH-ALLENSWORTH AREA								
20S/26E-24K01 M	M		362.5	10-01-74	44.5	318.0	23S/24E-35A02 M	M	235.0	9-24-74	204.9	30.1	5001		
			2-04-75	40.0	322.5	5607			1-24-75	NN-1					
20S/26E-32A01 M	M	4	331.5	10-02-74	NN-1	5607	24S/23E-05R02 M	M	210.0	9-25-74	281.7	- 71.7	5001		
			10-09-74	82.6	248.9	5609			1-24-75	228.3		- 18.3			
20S/26E-32A01 M	M	4	331.5	10-09-74	82.6	248.9	24S/23E-21B02 M	M	205.0	9-25-74	68.9	136.1	5001		
			2-05-75	65.0	266.5	5607			1-24-75	68.7		136.3			
20S/27E-24E01 M	M	4	392.0	10-02-74	25.5	366.5	24S/23E-34R01 M	M	3	205.0	9-25-74	NN-1		5001	
			2-06-75	18.0	374.0	5607			1-24-75	236.2		- 31.2			

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
ALPUGH-ALLENMORTH AREA							KERN RIVER DELTA AREA						
5-22.34							5-22.40						
245/24E-20R01 M		218.0	9-24-74 1-24-75	NM-1 215.5	2.5	5001	295/25E-12M03 M	2	330.0	9-30-74 2-05-75	189.5 181.0	141.5 145.0	5133
245/24E-22R01 M		233.0	9-24-74 1-23-75	240.1 163.0	- 7.1 70.0	5001	305/25E-18R01 M		300.0	9-25-74 1-29-75	100.0 102.0	200.0 198.0	5050
245/24E-34P01 M		232.0	9-24-74 1-24-75	98.7 86.2	133.3 145.8	5001	305/25E-22D01 M		308.5	10-01-74 2-01-75	91.4 92.1	217.1 216.4	5640
245/25E-17P01 M	3	268.0	9-24-74 1-23-75	118.0 106.5	150.0 161.5	5001	305/26E-22P02 M	2	338.0	10-01-74 2-04-75	120.5 108.5	217.5 229.5	5133
OELAND-EARLMART I.D.							305/28E-32B01 M	1	353.0	9-26-74 1-23-75	114.0 110.4	240.4 244.0	5001
235/25E-26K01 M	1	303.0	10-04-74 1-10-75	164.0 141.0	139.0 162.0	5613	315/27E-04J02 M		340.0	10-01-74 2-04-75	149.0 141.5	191.0 198.5	5133
235/26E-29P01 M		357.0	10-07-74 1-10-75	167.5 NM-1	189.5	5613	315/27E-28J01 M	1	312.1	10-01-74 2-04-75	81.5 93.5	230.6 218.6	5133
235/27E-27G01 M	4	552.0	9-26-74 1-22-75	NM-1 277.0	275.0	5001	315/28E-30M01 M	3	314.7	9-27-74 1-30-75	90.0 75.0	224.7 239.7	5050
245/25E-10A01 M	3	304.0	9-30-74 1-29-75	123.5 109.5	180.5 194.5	5613	325/27E-18E01 M	3	292.6	9-27-74 1-30-75	145.0 125.0	147.6 167.6	5050
245/25E-13J01 M		292.0	9-30-74 1-28-75	44.5 45.5	247.5 246.5	5613	325/28E-04R01 M		301.0	9-24-75 1-20-75	NM-1 NM-1		5001
245/26E-05R01 M	4	376.0	10-04-74 1-30-75	166.0 158.0	210.0 218.0	5613	EDISON-MARICOPA AREA						
245/26E-20M01 M	4	378.0	10-03-74 1-29-75	134.0 124.0	244.0 254.0	5613	5-22.41						
245/26E-29R02 M	1	401.0	10-04-74 1-28-75	126.0 120.0	275.0 280.0	5613	11N/19W-24H01 S		737.0	9-30-74 2-06-75	589.4 582.3	147.6 154.7	5644
245/26E-32G01 M	1	397.0	10-03-74 1-28-75	108.0 125.0	289.0 272.0	5613	11N/19W-10A01 S	1	612.0	9-30-74 2-11-75	472.9 479.9	131.1 136.1	5644
255/26E-10B03 M	4	430.0	10-02-74 1-27-75	176.5 163.5	253.5 266.5	5613	11N/20W-07Q01 S	3	452.3	1-31-75	283.0	169.3	5050
255/26E-16P01 M		388.0	9-23-74 1-23-75	99.2 89.5	288.8 298.5	5001	11N/20W-24E01 S		740.0	2-01-74	585.0	155.0	5050
255/27E-22H01 M	4	750.0	9-23-74 1-20-75	474.0 NM-1	276.0	5001	11N/21W-05M01 S	3	515.9	1-31-75	420.0	95.9	5050
SOUTHERN SAN JOAQUIN M.U.D.							11N/22W-04H01 S	3	529.0	1-31-75	400.0	129.0	5050
255/25E-16R02 M		335.0	9-26-74 1-30-75	205.4 160.0	129.6 175.0	5614	295/29E-13M01 M	4	580.0	9-17-74 1-21-75	442.3 426.3	137.7 153.7	5644
255/26E-28M02 M		415.0	9-27-74 1-31-75	204.6 201.6	210.4 213.4	5614	305/28E-02R01 M	4	411.0	9-26-74 1-24-75	244.0 228.0	167.0 182.0	5001
265/26E-16P01 M	4	443.0	9-26-74 1-31-75	NM-3 NM-3		5614	305/28E-10M01 M		373.0	9-26-74 1-23-75	56.0 57.2	317.0 315.8	5001
NORTH KERN W.S.D.							305/28E-10M04 M		373.0	9-26-74 1-23-75	207.5 197.5	165.5 175.5	5001
265/25E-15P01 M	3	348.0	9-23-74 1-27-75	243.0 195.0	109.0 153.0	5050	305/29E-05P01 M		515.0	9-18-74 1-21-75	375.2 NM-3	139.8 129.8	5644
265/25E-15R01 M	3	352.3	9-23-74 1-27-75	195.0 195.0	157.3 157.3	5050	305/29E-27A01 M	1	575.0	9-20-74 1-27-75	447.0 442.5	128.0 132.5	5644
265/26E-30P01 M	2	392.0	1-10-75	255.0	137.0	5050	305/30E-20R01 M	4	794.0	10-17-74 2-28-75	232.3 NM-1	561.7	5644
275/25E-01N01 M	3	394.0	9-25-74 1-31-75	117.0 106.0	277.0 288.0	5050	315/29E-04P01 M		459.0	9-23-74 1-29-75	332.5 292.5	126.5 166.5	5644
275/25E-01N03 M	2	394.0	9-25-74 1-31-75	301.0 271.0	93.0 123.0	5050	315/29E-29A01 M		400.0	9-24-74 1-20-75	154.5 144.9	245.5 255.1	5001
275/26E-20D01 M	1	445.3	9-25-74 1-31-75	340.0 NM-1	105.3	5050	315/30E-21G01 M	4	536.0	10-10-74 2-19-75	364.2 358.5	171.8 177.5	5644
275/27E-30H02 M	4	525.0	9-23-74 1-20-75	479.0 324.0	46.0 201.0	5001	325/28E-23R01 M		386.0	10-10-74 2-20-75	255.6 260.4	130.4 125.6	5644
285/25E-13J01 M	3	361.1	9-24-74 1-28-75	240.0 218.0	121.1 143.1	5050	325/29E-19M02 M		416.0	10-15-74 2-26-75	199.9 197.8	216.1 218.2	5644
285/26E-21M01 M	3	388.0	9-23-74 1-28-75	181.0 178.0	207.0 209.0	5050	325/29E-19M03 M		416.0	10-15-74 2-26-75	339.0 322.3	77.0 93.7	5644
285/26E-21M03 M	2	388.0	9-23-74 1-28-75	275.0 250.0	113.0 138.0	5050	BUENA VISTA W.S.D.						
SHAFER-MASCO I.D.							5-22.42						
275/24E-01L02 M		322.0	9-23-74 1-27-75	295.1 250.5	26.9 71.5	5616	275/22E-21P02 M			9-27-74 1-29-75	16.0 18.0	224.0 222.0	5133
275/24E-35C01 M	3	321.8	9-24-74 1-29-75	NM-1 252.0		5050	275/22E-32M01 M	1	241.0	9-27-74 1-29-75	141.0 136.0	100.0 105.0	5133
275/25E-28A01 M	3	375.0	9-26-74 1-28-75	283.0 260.0	92.0 115.0	5050	285/22E-09O01 M	3	240.0	9-27-74 1-29-75	12.5 12.5	227.5 227.5	5133
285/25E-16P01 M		329.0	9-25-74 2-03-75	240.5 217.0	88.5 112.0	5616	285/23E-11R01 M		257.8	10-01-74 2-01-75	26.2 36.1	231.6 221.7	5640
KERN RIVER DELTA AREA							295/23E-08A01 M		259.0	10-01-74 2-01-75	37.7 48.8	221.3 210.2	5640
285/26E-24M01 M	3	350.0	9-26-74 2-04-75	201.5 NM-1	148.5	5616	295/23E-27M01 M	1	270.0	9-27-74 1-31-75	59.5 59.5	214.5 210.5	5133
							305/23E-01D01 M		276.8	0-01-74 2-01-75	73.0 84.7	203.8 192.1	5640

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
BUENA VISTA W.S.D.							CORCORAN I.D.						
				5-22.42							5-22.46		
305/24E-02C01 M		288.7	10-01-74 2-01-75	112.6 107.5	176.1 161.2	5640	205/22E-35R01 M		216.0	11-06-74 2-20-75	45.0 55.0	171.0 161.0	5050
305/24E-04C01 M	1	282.0	9-27-74 1-31-75	87.5 91.5	194.5 190.5	5133	215/22E-27A01 M		196.0	11-06-74 2-20-75	10.0 9.5	186.0 186.5	5050
315/25E-26A01 M		289.0	10-02-74 1-30-75	84.0 66.0	205.0 223.0	5133	225/22E-01B02 M		201.0	11-06-74 2-20-75	5.2 6.5	195.8 194.5	5050
SEMITROPIC W.S.D.							225/22E-05L01 M	2	188.0	2-20-75	NM-6		5050
255/22E-02N02 M	1	212.0	9-25-74	NM-6		5133	225/22E-09L01 M		189.0	2-20-75	99.0	90.0	5050
255/22E-14G01 M		215.0	9-25-74 1-28-75	256.5 195.5	- 41.5 19.5	5133	225/22E-10A01 M	2	192.0	11-06-74 2-20-75	117.0 102.0	75.0 90.0	5050
255/23E-28D01 M		217.0	9-26-74 1-29-75	111.0 103.0	106.0 114.0	5133	225/22E-13P01 M	1	193.0	11-06-74 2-20-75	NM-5 NM-6		5050
255/23E-28D03 M	2	217.0	9-26-74 1-29-75	NM-3 NM-3		5133	225/22E-22H01 M	2	191.0	11-06-74	NM-6		5050
255/24E-10K01 M	1	240.0	9-25-74 1-23-75	57.6 56.0	182.4 184.0	5001	MENDOTA-HURON AREA						
255/24E-15H01 M		248.0	9-25-74 1-23-75	75.3 73.2	172.7 174.8	5001	135/12E-22N01 M	2	280.0	10-17-74 3-25-75	90.4 90.0	189.6 190.0	5607
255/24E-30H01 M		238.0	9-25-74 1-28-75	NM-7 NM-4		5133	145/15E-18E02 M		178.0	12-19-74	NM-6		5050
265/21E-14J01 M	1	237.0	9-23-74 1-27-75	28.0 36.0	209.0 201.0	5133	155/14E-15E04 M		236.0	12-17-74 1-27-75	NM-4 NM-6		5050
265/22E-21D01 M	2	240.0	9-23-74 1-28-75	35.0 36.0	205.0 204.0	5133	155/15E-22O01 M		175.0	10-16-74 1-27-75	72.7 81.0	102.3 94.0	5001
265/23E-02R01 M	2	234.9	9-26-74 1-29-75	NM-7 NM-9		5133 5121	155/16E-17L01 M		165.0	10-17-74 1-16-75	42.7 42.6	122.3 122.4	5621
265/24E-23H01 M	2	295.5	9-27-74 1-30-75	122.0 249.0	- 34.5 46.5	5050	155/16E-28A04 M		164.0	12-20-74 1-16-75	130.0 129.7	34.0 34.3	5050 5620
275/23E-01R01 M	1	267.0	9-24-74 1-28-75	97.5 96.5	169.5 170.5	5133	175/14E-13R01 M	1	47.0	12-23-74	630.0	-173.0	5050
275/23E-01R04 M	2	267.0	9-24-74 1-28-75	303.5 257.5	- 36.5 9.5	5133	175/16E-24R01 M		232.5	11-20-74	NM-6		5050
275/23E-01R05 M	2	267.0	9-24-74 1-28-75	294.5 249.5	- 27.5 17.5	5133	175/16E-30A03 M		290.0	10-16-74 1-17-75	60.0 58.5	230.0 231.5	5001
275/23E-09C01 M		260.0	9-26-74 1-31-75	289.0 203.0	- 29.0 - 23.0	5133	175/16E-30A05 M		290.0	10-16-74 1-17-75	349.2 358.7	- 59.2 - 68.7	5001
285/23E-11D01 M		255.0	10-01-74 2-01-75	39.0 43.5	216.0 211.5	5640	175/17E-20R01 M	3	228.0	12-19-74	NM-1		5050
295/24E-14R01 M	1	290.0	10-00-74	NM-0		5133	185/17E-12N01 M	2	253.0	12-19-74	245.0	8.0	5050
AVENAL-MCKITTRICK AREA							195/18E-15M01 M	2	274.0	2-06-74	245.0	29.0	5050
245/19E-10P01 M		330.0	2-19-74 5-20-74	24.1 24.0	305.9 306.0	5050	205/17E-32F01 M		447.0	12-15-74	607.0	-160.0	5050
255/19E-20O02 M	1	480.0	9-23-74 1-27-75	117.6 106.6	362.4 373.4	5133	205/18E-11N01 M	3	277.0	12-16-74	NM-6		5050
255/20E-04C01 M	1	268.0	8-26-74 11-19-74	45.5 NM-6	222.5	5050	205/18E-36D01 M		260.0	12-17-74	198.0	62.0	5050
265/18E-10B02 M	1	875.0	9-23-74 1-27-75	165.0 164.0	710.0 711.0	5133	215/18E-28R02 M		363.0	12-17-74	335.0	28.0	5050
285/22E-20M01 M		290.0	11-19-74 3-18-75	67.0 68.0	223.0 222.0	5050	POSO RESOURCES C.D.						
TULARE LAKE-LOST HILLS AREA							115/13E-05G01 M		117.0	3-18-75	8.8	108.2	5529
225/19E-18P02 M	1	255.0	11-18-74 3-17-75	176.0 175.0	79.0 80.0	5050	TERRA BELLA I.D.						
225/21E-01J01 M	2	185.5	2-20-75	94.0	91.5	5050	225/27E-25J03 M		532.0	9-14-74 2-20-75	108.0 87.0	424.0 445.0	5619
235/19E-14R01 M	1	235.0	11-18-74 3-17-75	32.0 33.5	203.0 201.5	5050	235/27E-05A01 M	4	450.0	9-30-74 1-22-75	NM-1 147.1	302.9	5001
245/20E-21N02 M	1	233.0	3-17-75	NM-0		5050	235/28E-06A02 M	1	550.0	9-14-74 2-20-75	101.0 99.0	449.0 451.0	5619
245/21E-15J01 M		211.0	2-19-75	19.5	191.5	5050	MERCED BOTTOMS						
245/21E-36B01 M		210.0	2-19-75	17.5	192.5	5050	075/10E-23R01 M		80.0	11-12-74 3-03-75	16.0 4.5	64.0 75.5	5050
245/22E-28A02 M		207.0	11-06-74 2-19-75	233.0 197.0	- 26.0 10.0	5050	075/10E-23R02 M		80.0	11-12-74 3-03-75	4.3 3.5	75.7 76.5	5050
245/22E-35E01 M		213.0	11-06-74 2-19-75	263.0 212.0	- 50.0 1.0	5050	075/12E-27F01 M		110.5	11-12-74 2-28-75	12.0 10.0	98.5 100.5	5050
265/22E-30K01 M	1	237.5	8-27-74 11-19-74	35.5 NM-6	202.0	5050	085/12E-19D01 M		90.0	2-27-75	12.0	78.0	5050
							095/12E-01C01 M	1	110.5	11-12-74 2-26-75	NM-1 47.0	63.5	5050
							095/14E-01B01 M		180.0	11-12-74 2-26-75	89.0 6.0	91.0 111.0	5050
							095/14E-01B02 M		180.0	11-12-74 2-26-75	85.0 66.0	95.0 114.0	5050

**TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE	STATE WELL NUMBER	AQUIFER	GROUND ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
MERCED BOTTOMS							5-22.54						
09S/14E-01B03 M		180.0	11-12-74 2-26-75	40.0 39.0	140.0 141.0	5050							
09S/14E-06D01 M		141.0	11-12-74 1-20-75	48.0 43.4	93.0 97.6	5050 5001							
GARFIELD W.O.							5-22.65						
12S/20E-13H01 M	4	387.0	10-03-74 2-03-75	97.6 96.4	289.4 290.6	5622							
12S/21E-07A02 M	4	405.5	10-03-74 2-03-75	120.8 120.0	284.7 285.5	5622							
12S/21E-18A03 M	4	390.5	10-03-74 2-03-75	94.4 94.0	296.1 296.5	5622							
KINGS COUNTY W.O.							5-22.66						
17S/20E-36R02 M	1	243.0	9-18-74 1-30-75	17.3 16.1	225.7 226.9	5129							
17S/22E-11P01 M	1	283.0	9-18-74 1-30-75	22.3 22.9	260.7 260.1	5129							
17S/22E-35N01 M	1	266.0	9-18-74 1-30-75	43.1 35.9	222.9 230.1	5129							
18S/21E-17N01 M	1	238.0	9-18-74 1-30-75	11.1 10.9	226.9 227.1	5129							
18S/22E-21H01 M	1	258.0	9-18-74 1-30-75	85.1 NM-6	172.9 172.9	5129							
18S/22E-36P01 M		245.0	10-09-74 1-30-75	73.7 83.5	171.3 161.5	5129 5603							
18S/23E-28B01 M	1	263.0	9-20-74 1-30-75	112.2 111.9	150.8 151.1	5129							
19S/21E-20N01 M	1	225.0	9-20-74 2-06-75	10.3 10.7	214.7 214.3	5129							
19S/22E-04B01 M	1	245.0	9-18-74 1-30-75	129.4 127.3	115.6 117.7	5129							
19S/22E-19A01 M	2	235.0	9-19-74 2-06-75	75.4 71.2	159.6 163.8	5129							
19S/22E-23A01 M		240.5	9-19-74 2-06-75	78.6 77.1	161.9 163.4	5129							
20S/21E-03A01 M		220.0	10-10-74 2-20-75	9.5 14.5	210.5 205.5	5603							
20S/21E-05E01 M	2	219.0	9-20-74 2-06-75	155.6 153.1	63.4 65.9	5129							
20S/22E-10H02 M	2	225.0	9-24-74 2-07-75	117.5 NM-9	107.5 107.5	5129							
PLEASANT VALLEY							5-22.69						
20S/15E-25D01 M	1	619.0	1-03-75	DMY		5050							
20S/15E-32A01 M	1	675.0	1-03-75	247.0	428.0	5050							
21S/16E-02N01 M	1	570.0	1-02-75	258.0	312.0	5050							
21S/16E-08E01 M	1	604.0	1-02-75	234.0	361.0	5050							
21S/16E-35D01 M	1	682.0	1-02-75	363.0	319.0	5050							

APPENDIX D
SURFACE WATER QUALITY

APPENDIX D
SURFACE WATER QUALITY

Introduction

Appendix D summarizes the surface water quality for the San Joaquin Valley for 1975 water year (October 1, 1974, through September 30, 1975). These data were obtained from 101 surface water quality sampling stations.

Laboratory analyses of surface water samples performed by the Department of Water Resources' laboratory reported herein are in accordance with the 13th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight digit identification number. The first two digits denote the drainage basin as shown below; the remaining digits identify each station.

<u>Hydrographic Area B</u> <u>San Joaquin River Basin</u>	<u>Hydrographic Area C</u> <u>Tulare Lake Drainage Basin</u>
B0 San Joaquin Valley Floor	C0 Tulare Lake Valley Floor
B3 Stanislaus River	C1 Kings River
B4 Tuolumne River	C2 Kaweah River
B5 Merced River	C3 Tule River
B6 Fresno-Chowchilla Rivers	C4 Greenhorn Mountains
B7 San Joaquin River	C5 Kern River
B8 San Joaquin Valley on West Side	C6 Tehachapi Mountains
	C7 Tulare Lake Basin on West Side

TABLE D-I
SAMPLING STATION DATA AND INDEX
FOR
SURFACE WATER

Station	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis of Page
Bear Creek above Bear Creek Reservoir	B55152.10	6S/16E-22Q	February 1974		DWR	173, 188, 196
Big Creek above Pine Flat Reservoir	C11320.00	11S/25E-4	--	S	DWR	176, 189, 197, 200
Burkhard Drain	B00936.30	4S/7E-4L	June 1975			168, 184, 193
Burns Creek at Merced-Mariposa County Line	B56152.50	6S/16E-19D	February 1974		DWR	173, 182, 188, 196
Caliente Creek above Tehachapi	C61575.00	30S/32E-17P				179
Canal Creek at Oakdale Road	B05166.50	6S/13E-10K	February 1974		DWR	170, 182, 185, 193
Chowchilla River near Raymond	B64200.00	8S/18E-01R	July 1958	S	DWR	174
Deadman Creek at Baxter Road	B06399.50	8S/17E-17M	February 1974		DWR	170, 186, 194
Delta-Mendota Canal to Mendota Pool	B00770.00	13S/15E-19Q	July 1952	S	DWR	169, 184
Dutchman Creek at Baxter Road	B06369.50	8S/17E-20N	February 1974		DWR	170, 185, 194
Fresno River near Daulton	B67150.00	10S/19E-03	January 1985	S	DWR	174
Friant-Kern Canal at Friant	B71910.00	11S/21E-05P	March 1974	Q	DWR	175
Griswold Creek above Panoche Valley	B81253.10	16S/10E-13C				175
Kaweah River above Lake Kaweah	C21210.30	17S/28E-34	December 1974	S	DWR	177, 189, 197
Kaweah River at Lemoncove	C02550.30	18S/27E-3	--	S	DWR	175, 189, 197
Kaweah River Middle Fork below No. 2 Intake near Three Rivers	C23147.00	16S/29E-33	--	S	DWR	177, 189, 198
Kaweah River North Fork near Mouth	C22010.30	17S/28E-13	--	S	DWR	177, 189, 198
Kaweah River South Fork above Grouse Creek	C24201.50	18S/29E-16	--	S	DWR	177, 189, 198
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	Q	DWR	175, 182, 200
Kaweah River at Three Rivers	C21250.00	17S/28E-13N	April 1951	S	DWR	177
Kerckhoff Reservoir near Auberry	B71188.00	9S/22E-24P	March 1974	S	DWR	174
Kern River near Bakersfield	C05150.00	28S/29E-33	April 1951	Q	DWR	176, 182, 200
Kern River above Fairview	C51660.10	23S/32E-12	--	S	DWR	179, 190, 19
Kern River at Hart Park	C05160.10	28S/28E-36	--	S	DWR	176, 189, 197
Kern River below Isabella Dam	C51350.00	26S/33E-30E	--	S	DWR	173
Kern River at Kernville	C51500.00	25S/33E-15	--	S	DWR	179, 190, 198
Kern River at Miracle Hot Springs	C51220.10	27S/32E-15	--	S	DWR	178, 190, 198
Kern River at Rancheria Bridge	C05180.10	29S/29E-11	--	S	DWR	176, 189, 197
Kern River South Fork near Weldon	C53110.10	26S/34E-10	--	S	DWR	179, 190, 198
Kings River below North Fork	C11460.00	12S/26E-21	--	S	DWR	177, 189, 197
Kings River below Peoples Weir	C01140.00	17S/22E-01	April 1951	Q	DWR	175
Kings River near Piedra	C11115.50	13S/24E-08B	February 1974		DWR	176, 189, 197
Kings River below Pine Flat Reservoir	C11140.00	13S/24E-02	September 1955	Q	DWR	176, 182
Kings River South Fork at Cedar Grove	C14115.30	13S/30E-1	--	S	DWR	177, 189, 197
Mariposa Creek above Mariposa Reservoir	B62204.10	7S/17E-17A	February 1974		DWR	174, 182, 188, 197
Merced River at Bagby	B51320.00	04S/17E-6	November 1952	S	DWR	173, 188, 196
Merced River above Briceburg	B51410.10	03S/18E-25	October 1972	S	DWR	173, 188, 196
Merced River below El Portal	B51517.10	03S/20E-18	October 1972	S	DWR	173, 188, 196

TABLE D-I (Continued)

**SAMPLING STATION DATA AND INDEX
FOR
SURFACE WATER**

Station	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis on Page
Merced River below Exchequer Dam	B51200.00	04S/15E-13	April 1951	Q	DWR	173, 182, 196 200
Merced River at Happy Isles Bridge near Yosemite	B51700.00	02S/21E-	--	S	DWR	173, 188, 196
Merced River at Junction Big Oak Flat Road and Highway 140	B51519.50	02S/21E-	February 1973	S	DWR	173, 188, 196
Merced River at Milliken Bridge	B05131.00	06S/09E-36	April 1951	M	DWR	170, 185, 193 200
Modesto Sewage Treatment Plant	B04942.30	4S/8E-3C	July 1975			169, 185, 193
Musick Creek #1 near Shaver Lake	B71406.00	10S/24E-2E	November 1974			174
Musick Creek #2 near Shaver Lake	B71408.00	10S/24E-3P	October 1974			175
Newman Wasteway	B00349.10	17S/9E-16J	June 1975			168, 184, 193
Owens Creek above Owens Reservoir	B62020.10	7S/16E-12H	February 1974		DWR	174, 188, 196
Poso Creek below Glennville	C44950.10	25S/30E-35M	December 1974			178
Salt Slough near Stevinson	B00470.00	08S/10E-10	December 1961	Q	DWR	168, 182, 184 193, 200
San Joaquin River at Crows Landing Bridge	B07250.00	6S/9E-07A	January 1957		DWR	171, 186, 195
San Joaquin River at Fremont Ford Bridge	B07375.00	07S/09E-24	July 1955		DWR	171, 182, 186, 187, 195, 200
San Joaquin River at Friant Dam	B07885.00	11S/21E-07	April 1951		DWR	172, 182, 187
San Joaquin River near Grayson	B07080.00	04S/07E-25	April 1959	M	DWR	171, 186, 194
San Joaquin River below Kerckhoff near Prather	B71180.00	10S/22E-10C	October 1974			174, 182
San Joaquin River at Maze Road Bridge	B07040.00	03S/07E-33	April 1951	M	DWR	170, 171, 186 194, 200
San Joaquin River near Mendota	B07710.00	13S/15E-07	April 1951	M	DWR	171, 187
San Joaquin River at North Fork Road Bridge	B07886.50	11S21E-07H	February 1974		DWR	172, 187, 195
San Joaquin River at Patterson Bridge	B07200.00	5S/8E-15M	February 1958		DWR	171, 186, 194
San Joaquin River below Shakeflat Creek	B71532.50	7S/24E-10	--	S	DWR	175, 188, 197
San Joaquin River South Fork at Mono Hot Springs	B74250.50	7S/27E-10	--	S	DWR	175, 188, 197
San Joaquin River near Vernalis	B07020.00	03S/06E-13	April 1951	M	DWR & USBR	179, 180, 182, 190, 191, 194, 200
San Joaquin River above Willow Creek near Auberry	B71340.00	9S/23E-15	--	S	DWR	174, 188, 197
Stanislaus River at Knights Ferry	B03185.00	1S/12E-29	--	S	DWR	169, 184, 193
Stanislaus River at Koetitz Ranch	B03115.00	03S/07E-02	April 1951	M	DWR	168, 169, 184 193
Stanislaus River Middle Fork at Beardsley	B33255.00	5N/18E-31	--	S	DWR	172, 187, 195
Stanislaus River Middle Fork at Dardanelle	B33480.10	6N/20E-30	--	S	DWR	172, 187, 195
Stanislaus River North Fork at Calaveras Big Trees State Park	B32110.10	5N/15E-24	--	S	DWR	172, 187, 195
Stanislaus River at Parrotts Ferry Bridge	B31400.50	2N/13E-9	--	S	DWR	172, 187, 195
Stanislaus River below Tulloch Dam	B31158.10	01S/12E-02	August 1956	Q	DWR	172, 182, 200
Sullivan Creek at Jacksonville Road	B41231.50	01N/14E-35C	November 1973			187, 195

TABLE D-1 (Continued)

**SAMPLING STATION DATA AND INDEX
FOR
SURFACE WATER**

Station	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis on Page
Tehachapi Creek near Tehachapi	C61540.00	32S/32E-16P				179
Tejon Creek at Comanche Point Oil Field	C62050.30	12N/18W-28N	January 1970			179
Tile Drain near Patterson	B00955.30	5S/8E-21L	July 1975			168, 164
Tule River North Fork at Bear Creek Road	C32190.10	20S/29E-35	--	S	DWR	178, 190, 198
Tule River South Fork above Crew Creek	C34149.30	22S/29E-4		S	DWR	178, 190, 198
Tule River South Fork of Middle Fork near Springville	C33200.00	20S/30E-	--	S	DWR	178, 190, 198
Tule River below Springville	C31929.30	21S/29E-17	--	S	DWR	178, 190, 198
Tule River below Success Dam	C03196.00	21S/28E-35	July 1956	Q	DWR	176, 182, 200
Tule River at Worth Bridge near Porterville	C03195.00	22S/28E-3	--	S	DWR	175, 176, 189, 197
Tuolumne River above Don Pedro Reservoir	B41265.50	1S/15E-20B	March 1966	S	DWR	172
Tuolumne River above Early Intake	B41680.10	1S/18E-1	--	S	DWR	173, 188, 195
Tuolumne River at La Grange Bridge	B04175.00	03S/14E-20	--		DWR	169, 185, 193, 200
Tuolumne River at Tuolumne City	B04105.00	04S/08E-12	April 1951	M	DWR	169, 184, 193, 200
Tuolumne River at Tuolumne Meadows	B41850.10	1S/24E-3	--	S	DWR	173, 188, 195
Tuolumne River at Wards Ferry Bridge	B41290.10	1S/15E-2	--	S	DWR	172, 187, 195
Turlock Irrigation District Lateral Drain #2	B04974.30	4S/7E-25G	June 1975		DWR	169, 185, 193
Turlock Irrigation District Lateral Drain #5	B04975.30	5S/8E-25R	June 1975		DWR	170, 185, 193
Turlock Irrigation District Lateral Drain #6 and #7	B04976.30	6S/9E-22H	June 1975		DWR	170, 185, 193
Turlock Sewage Treatment Plant	B04921.30	5S/10E-21K	July 1975		DWR	169, 185, 193
Woods Creek at County Fairgrounds	B41239.50	2N/14E-36P	October 1973		DWR	187, 195
Woods Creek at Jack Page Road above Sonora	B41241.50	2N/14E-25B	October 1973		DWR	187, 195
Woods Creek below Jamestown Sewage Treatment Plant	B41235.50	1N/14E-15M	October 1973		DWR	187, 195
Woods Creek at Slate Creek	B41232.50	1N/14E-33H	October 1973		DWR	187, 195
Woods Creek below Sonora Sewage Treatment Plant	B41238.50	1N/14E-01N	October 1973		DWR	187, 195
Westly Wasteway	B00109.30	4S/7E-26K	June 1975		DWR	168, 184, 193
LAKES						
Lake McClure at Bagby	B5R73670079L	4S/17E-6	1975		DWR	173, 196
Lake McClure near McClure Point	B5R73570162L	4S/15E-12	September 1974		DWR	173, 196
Lake McClure at Inlet (head)	B5R73620061L	4S/17E-19E	1975		DWR	196
Lake McClure at Barrett Cove	B5R73880173L	3S/15E-35A	1975		DWR	196
Lake McClure at Lower Horseshoe Bend	B5R74050138L	3S/16E-17F	1975		DWR	196
Lake McClure at Upper Horseshoe Bend	B5R74160161L	3S/16E-8F	1975		DWR	196

- a. Location of sampling stations is shown on Figure E-1.
b. Beginning of record (-- indicates an irregular period of record).
c. M - Monthly, Q - Quarterly, S - Semiannually, all others irregular.
d. DWR - Dept. of Water Resources, USGS - U. S. Geological Survey.

TABLE D-2
MINERAL ANALYSES OF SURFACE WATER

Abbreviations, Chemical Symbols, and Codes used
in this table are:

<u>Abbreviations</u>			
TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)	DO	Dissolved oxygen content in milligrams per litre
SAT	Percent Saturation	GH	Gage height in feet above an established datum
Q	Flow	FLD	Field Determination
LAB	Laboratory	EC	Specific electrical conductance in micromhos at 25° Celsius
PH	Measure of acidity or alkalinity of water	TDS	Total Dissolved Solids
SUM	Summation of Analyzed Constituents	TH	Total Hardness
NCH	Noncarbonate Hardness	TURB	Turbidity in Turbidity Units
SAR	Sodium Adsorption Ratio		
REM	Remarks as follows:		
T	Total Dissolved Solids and the calculated sum of constituents are <u>not</u> within 20 percent of each other.		
E	Total Dissolved Solids value is <u>not</u> within the range of 0.35 to 0.70 of the Specific Electrical Conductance.		
S	The anion and cation sums are <u>not</u> within the prescribed tolerance of <u>+5</u> percent.		
X	The field EC and the laboratory EC are <u>not</u> within 20 percent of each other.		

<u>Chemical Symbols</u>			
CA	Calcium	SO ₄	Sulphate
MG	Magnesium	CL	Chloride
NA	Sodium	NO ₃	Nitrate
K	Potassium	F	Fluoride
CO ₃	Carbonate	B	Boron
HCO ₃	Bicarbonate	SiO ₂	Silica

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-2
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	O.M. Q DEPTH	OD SAT	TEMP	FIELD LABORATORY PW EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REMARKS	
						CA	MO	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM		TH NCH
H0 0109.30 HESTLEY WASTEWAY																			
06/25/75	5050			10.5	64	F				0	89								168C
0945	5001			11.0	18	C	8.0	458		.00	1.44						14.8		5
07/23/75	5050			11.3	73	F	8.5	668			0	128							1204F
0820	5001			131	23	C	8.5			.00	2.10						15.2		5
H0 0349.10 NEWMAN WASTEWAY																			
06/24/75	5050			5.4	66	F	7.9	1070											35C
1030	5001			5.8	19	C											20.0		
07/22/75	5050			2.4	73	F	7.3	1060			0	240							204F
0930	5001			28	23	C	7.3			.00	3.93						21.6		5
09/30/75	5050			1.3	68	F	7.6	1290			0	334							174F
1005	5001			1.4	20	C	7.6			.00	5.47						22.0		5
H0 0470.00 SALT SLOUGH NR STEVINSON																			
12/19/74	5050	21.20	18.0	50.0F	7.6	1550	103	60	332		0	282	429	401	4.0	2.20		1540	504
1310	5050			10.0C	8.2	2410	5.14	4.93	1.444	.00	4.25	8.93	11.31	.06			1460	289	6.4
							21	20	59			17	36	46					
04/03/75	5050			8.4	55.4F	7.7	1550	100	45	246		0	182	395	300		2.10		435
0900	5050			7.9	13.0C	8.0	1960	4.99	3.70	10.70	.00	2.98	8.22	8.46			1178	286	5.1
							26	19	55			15	42	43					
05/21/75	5050			62.6F	7.4	1300	73	34	188	5.1	0	189	201	262	6.7	.60		925	322
1230	5050			17.0C	7.9	1520	3.64	2.80	8.18	.13	.00	3.10	4.18	7.39	.11		18.0	881	4.6
							25	19	55	1		21	28	50	1			161	
05/28/75	5050	21.43	10.3	71.6F	8.1	1200	84	30	170		0	174	165	226		.60		791	282
1130	5050			117	22.0C	8.2	1340	3.19	2.47	7.40	.00	2.85	3.44	6.37			741	141	4.4
							24	19	57			23	27	50					
06/24/75	5050			6.4	68	F	8.1	993			0	14							50C
0945	5001			7.20	C	8.1	993			.00	.23						18.2		5
07/22/75	5050			5.6	82	F	7.8	867			0	124							304F
0950	5001			71	28	C	7.8			.00	2.03						21.6		5
08/20/75	5050			73	F	7.3	1100	62	25	130	5.6	0	154	178	170	13.0	1.00		720
1100	5050			23	C	7.6	1160	3.09	2.06	5.66	.14	.00	2.52	3.71	4.79	.21	22.0	682	3.5
							28	19	52	1			22	33	43	2			
08/27/75	5050	22.55	5.7	71.6F	7.4	1175	63	31	161		0	187	206	208		.90		785	286
1100	5050			62	22.0C	7.5	1300	3.14	2.55	7.00	.00	3.06	4.29	5.87			762	132	4.2
							25	20	55			23	32	44					
H0 0770.00 DELTA MENDOTA CANAL TO MENDOTA POOL																			
12/11/74	5050	10.90	10.7	49.1F	8.3	340	25	13	58		0	87	93	54	4.5	.40		318	119
1020	5050			9.4	9.5C	8.0	530	1.25	1.13	2.52	.00	1.43	1.94	1.52	.07		291	48	2.3
							26	23	51			29	39	31	1				
04/08/75	5050	15.20	10.3	55.4F	7.5	310	24	12	42		0	85	59	56		.20		259	110
1030	5050			9.8	13.0C	7.4	425	1.20	1.00	1.83	.00	1.39	1.23	1.58			235	41	1.7
							30	25	45			33	29	38					
05/28/75	5050			7.4	71.5F	7.1	320	17	9.8	26		0	73	31	35		.10		177
0800	5050			8.4	21.9C	8.0	317	.05	.81	1.22	.00	1.20	.65	.99			157	83	1.3
							30	28	42				42	23	35			23	
09/11/75	5050	15.50	7.4	73.4F	7.6	390	25	13	46		0	107	50	56		.20		263	117
1100	5050			8.6	23.0C	8.0	468	1.25	1.07	2.00	.00	1.75	1.09	1.58			243	29	1.9
							29	25	46			40	24	36					
H0 0936.30 BURKHARD ORAIN																			
07/23/75	5050			7.9	72	F	8.2	1825			0	225							1044F
0930	5001			9.0	22	C	8.2			.00	3.69						14.4		5
H0 0955.30 TILE DRAIN NEAR PATTERSON																			
07/22/75	5050			1.7	68	F	7.3	2923			0	398							14F
1255	5001			1.9	20	C	7.3			.00	6.52						24.8		5
09/30/75	5050			4.5	68.0F	7.4	3000				0	371							14F
1400	5001			4.4	20.0C					.00	6.08								5
H0 3115.00 STANISLAUS RIVER AT KOETITZ RANCH																			
12/19/74	5050	32.64	10.6	50.9F	7.2	70	7.6	3.4	3.0		0	40	4.0	1.4	1.5	.00		59	33
1510	5050			10.5C	7.7	83	.38	.26	.17	.00	.66	.08	.04	.02			41	0	0.3
							46	34	20		.83	10	5	3					
04/03/75	5050	32.79	10.5	51.8F	7.3	85	11	5.5	4.6		0	60	6.4	1.6		.10		63	50
1140	5050			95	11.0C	7.7	120	.55	.70		.00	.98	1.3	.05			59	1	0.3
							46	38	17			84	11	4					
05/28/75	5050	36.79	9.5	63.5F	7.3	35	4.3	2.6	2.6		0	24	1.3	2.1		.00		36	21
1600	5050			99	17.5C	7.2	50	.21	.21	.11	.00	.39	.03	.06			25	2	0.2
							40	40	21			81	6	13					
06/25/75	5050																		
1205	5001																10.6		

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. U DEPTH	00 SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REMARKS			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TM NCH	TURB SAR		

BO 3115.00 STANISLAUS RIVER AT KOETITZ RANCH CONTINUED																					
07/23/75	5050			8.1	75 F	7.5	197	--	--	--	--	86	--	--	--	--	--	--	74F		
1110	5001	3		95	24 C	7.5				.00	1.41				--	19.6				S	
08/27/75	5050	2R.62	8.1	73.4F	7.5	160	14	9.0	9.5	--	0	86	8.1	6.4	--	.00	--	114	72	0.5	T
1500	5050		93	23.0C	7.7	181	.70	.74	.41	.00	1.41	.17	.18	10	10	--	89	2			
						38	40	22				80									
BO 3185.00 STANISLAUS RIVER AT KNIGHTS FERRY																					
06/18/75	5050		9.9	62.8F	8.1	28	--	--	--	--	0	17	--	--	--	--	27			E	
1600	5050		103	17.0C	7.4	33				.00	.28					--				S	
09/17/75	5050		8.6	73.4F	7.8	65	--	--	--	--	0	35	--	--	--	--	55			E	
1700	5050		100	23.0C	7.2	68				.00	.57					--					
BO 4105.00 TUOLUMNE RIVER AT TUOLUMNE CITY																					
12/19/74	5050	26.59	10.1	52.7F	7.1	148	11	4.5	17	--	0	42	4.1	28	2.4	.00	--	113	46		X
1445	5050		92	11.5C	7.7	183	.55	.37	.74	.00	.69	.09	.79	.04		--	88	12	1.1	T	
							33	22	45			43	6	49	2						
04/03/75	5050	25.44	9.5	55.8F	7.4	230	18	7.3	29	--	0	69	5.9	50	--	.10	--	159	75		X
1230	5050		90	13.2C	7.8	306	.90	.60	1.26	.00	1.13	.12	1.41	5	53	--	144	19	1.5		
							33	22	46			42									
05/28/75	5050	24.10	7.5	75.2F	7.3	400	26	10	42	--	0	89	8.4	79	--	.10	--	257	106		
1400	5050		88	24.0C	7.9	434	1.30	.82	1.83	.00	1.44	.17	2.23	4	58	--	209	33	1.8		
							33	21	46			38									
06/25/75	5050		9.1	68 F			--	--	--	--	0	105	--	--	--	--	--			6C	
1125	5001		100	20 C	7.7	530				.00	1.72					--	19.0			S	
07/23/75	5050		7.1	75 F	7.5	563	--	--	--	--	0	117	--	--	--	--	--			8AF	
1004	5001		84	24 C	7.5					.00	1.92					--	28.0			S	
		1																			
08/27/75	5050	23.45	8.2	75.2F	7.6	600	34	14	61	--	0	125	9.2	116	--	.10	--	364	141		
1330	5050		97	24.0C	7.7	605	1.70	1.15	2.05	.00	2.05	.19	3.27	37	59	--	296	40	2.2		
							31	46													
BO 4175.00 TUOLUMNE RIVER AT LA GRANGE BRIDGE																					
04/04/75	5050		10.6	48.2F	7.0	30	4.4	1.7	1.8	--	0	21	5.4	1.0	--	.00	--	25	18		X
0800	5050		94	9.0C	7.4	46	.22	.14	.08	.00	.34	.11	.03			--	25	1	0.2		
							50	32	18			71	23	6							
05/29/75	5050		10.1	51.8F	7.0	30	4.0	2.4	1.8	--	0	24	2.6	1.3	--	.00	--	33	20		X
0830	5050		91	11.0C	7.0	49	.20	.20	.08	.00	.39	.05	.04			--	24	1	0.2	T	
							42	17				81	10	8							
06/04/75	5050		9.4	59.8F	7.1	50	--	--	--	--	0	26	--	--	--	--	--	40			E
1300	5050		105	21.0C	7.3	55				.00	.43					--				S	
09/24/75	5050		10.5	59.9F	6.8	32	5.2	1.0	1.8	--	0	21	3.4	.0	--	.00	--	26	17		X
1400	5050		100	13.3C	7.7	43	.26	.08	.08	.00	.34	.07	.00			--	22	0	0.2		
							62	19	19			83									
BO 4921.30 THIRLOCK SEWAGE TREATMENT PLANT																					
06/24/75	5050		3.4	70 F			685	--	--	--	--	20	247	--	--	--	--			25C	
1255	5001		38	21 C	9.0	685				.67	4.05					--	26.0			S	
07/22/75	5050		6.8	77 F	8.1	621	--	--	--	--	23	270	--	--	--	--	--			16AF	
1144	5001		77	25 C	8.9					.77	4.43					--				S	
		1																			
09/30/75	5050		11.6	73 F	8.8	740	--	--	--	--	0	363	--	--	--	--	--			174F	
1345	5001		134	23 C	8.8					.00	4.97					--				S	
		1																			
BO 4942.30 MODESTO SEWAGE TREATMENT PLANT																					
06/24/75	5050		3.0	72 F			--	--	--	--	0	288	--	--	--	--	--			32C	
1405	5001		34	22 C	8.0	1658				.00	4.72					--	59.0			S	
07/22/75	5050		9.0	82 F	9.2	1530	--	--	--	--	39	229	--	--	--	--	--			34AF	
1305	5001		125	28 C	9.2					1.30	3.75					--	.6			S	
		3																			
09/30/75	5050		0.0	77 F	7.4	1510	--	--	--	--	0	418	--	--	--	--	--			120AF	
1455	5001				7.4					.00	6.85					--				S	
		3																			
BO 4974.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 2																					
06/25/75	5050		12.9	63 F			--	--	--	--	0	74	--	--	--	--	--			7C	
1035	5001		133	17 C	7.8	230				.00	1.21					--	15.4			S	
07/23/75	5050		8.8	73 F	8.0	230	--	--	--	--	0	80	--	--	--	--	--			4AF	
0944	5001		162	23 C	8.2					.00	1.31					--				S	
		3																			

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					REMARKS	
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F SI02	TOS SUM	TH NCH		TURB SAR
.....																				
H0 7040.00 SAN JOAQUIN RIVER AT HAZE ROAD BRIDGE																			CONTINUED	
06/25/75 0850	S050 S001						--	--	--	--	--	--	--	--	--	--	--	15.2		
07/23/75 0825	S050 S001		6.1 73	77 F 7.9	7.9 931	--	--	--	--	0	141 2.31	--	--	--	--	--	--	18.4	744F	
3																				
08/27/75 1400	S050 S050	15.01	7.1 84	75.2F 24.0C	7.5 774	800 2.10	42 28	18 1.48	88 3.83	--	0	154 2.52	77 1.60	119 3.36	--	.30	--	457 420	181 53	2.9
80 7080.00 SAN JOAQUIN RIVER NEAR GRAYSON																				
12/19/74 1425	S050 S050		9.5 86	51.8F 11.0C	7.4 8.2	800 1100	44 2.20	27 2.22	141 6.13	--	0	166 2.72	159 3.31	150 4.23	7.6 +12	.80	--	647 611	221 85	4.1
04/03/75 1250	S050 S050		9.4 89	55.4F 13.0C	7.7 8.0	550 682	33 1.65	17 1.41	78 3.39	--	0	109 1.79	105 2.19	85 2.40	--	.50	--	394 372	153 64	2.7
05/28/75 1430	S050 S050		10.7 174	73.4F 23.0C	8.2 8.1	550 600	27 1.35	16 1.32	67 2.91	--	0	106 1.74	71 1.48	82 2.31	--	.20	--	348 315	134 47	2.5
06/25/75 0845	S050 S001		8.0 86	66 19	F 7.9	524	--	--	--	--	0	112 1.84	--	--	--	--	--	11.6	34C	
07/23/75 0905	S050 S001		6.8 80	75 24	F 7.7	928	--	--	--	--	0	178 2.92	--	--	--	--	--	17.0	604F	
3																				
08/27/75 1300	S050 S050		6.7 79	75.2F 24.0C	7.6 7.4	800 804	40 2.00	21 1.73	90 3.92	--	0	162 2.66	88 1.83	111 3.13	--	.30	--	465 430	188 54	2.9
80 7200.00 SAN JOAQUIN RIVER AT PATTERSON BRIDGE																				
06/24/75 1230	S050 S001		8.6 96	68 20	F 7.9	494	--	--	--	--	--	--	--	--	--	--	--	13.4	26C	
07/22/75 1220	S050 S001		8.9 113	82 28	F 8.1	756	--	--	--	--	0	132 2.16	--	--	--	--	--	16.8	544F	
3																				
80 7250.00 SAN JOAQUIN RIVER AT CHOWS LANDING BRIDGE																				
06/24/75 1140	S050 S001		8.1 89	68 20	F 7.9	464	--	--	--	--	--	--	--	--	--	--	--	13.0	29C	
07/22/75 1140	S050 S001		8.7 110	82 28	F 8.1	706	--	--	--	--	0	124 2.03	--	--	--	--	--	16.4	504F	
3																				
80 7375.00 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																				
✓ 12/19/74 1240	S050 S050	55.69	10.6 14	50.0F 10.0C	7.6 8.2	1450 2060	87 4.34	53 4.39	274 11.92	--	0	244 4.00	329 6.85	338 9.93	8.4 +10	1.50	--	1270 1209	437 237	5.7
✓ 04/03/75 0830	S050 S050	57.87	8.8 83	55.4F 13.0C	7.5 8.1	1007 1330	67 3.34	32 2.65	160 6.96	--	0	162 2.66	226 4.71	208 5.97	--	1.10	--	828 774	300 167	4.0
✓ 05/21/75 1315	S050 S050			68.0F 20.0C	8.1 8.0	900 1090	68 3.39	15 1.23	133 5.77	4.6 +12	0	159 2.61	124 2.58	179 5.05	6.5 +10	.30	--	630 627	232 101	3.8
05/28/75 1100	S050 S050	56.26	10.3 119	73.4F 23.0C	8.2 8.0	1000 1090	48 2.40	28 2.30	128 5.57	--	0	151 2.47	132 2.75	176 4.96	--	.40	--	635 587	237 112	3.6
✓ 06/24/75 1035	S050 S001		7.6 85	70 21	F 8.0	1145	--	--	--	--	--	--	--	--	--	--	--	15.4	35C	
✓ 07/22/75 1035	S050 S001		7.3 89	79 26	F 7.9	813	--	--	--	--	0	132 2.16	--	--	--	--	--	17.8	384F	
2																				
✓ 08/20/75 1130	S050 S050			75 24	F 7.4	1000 7.7 1030	55 2.74	22 1.81	120 5.22	5.6 +14	0	152 2.49	131 2.72	161 4.54	13.0 +21	.50	--	629 603	230 103	3.5
08/27/75 1000	S050 S050	57.11	7.4 86	73.4F 23.0C	7.7 7.9	900 937	48 2.5	20 1.89	122 4.87	--	0	161 2.84	123 2.54	173 3.98	--	.50	--	569 524	211 78	3.4
H0 7710.00 SAN JOAQUIN RIVER NEAR MENDOTA																				
12/11/74 1640	S050 S050		11.5 109	48.2F 9.0C	8.3 8.0	300 470	24 1.20	12 1.00	50 2.18	--	0	105 1.72	50 1.04	56 1.58	2.0 +03	.20	--	266 246	110 44	2.1
04/08/75 1000	S050 S050	34.08	10.9 105	56.3F 13.5C	7.6 7.9	320 429	24 1.20	12 1.00	42 1.83	--	0	85 1.39	60 1.25	51 1.44	--	.20	--	261 231	110 41	1.7
05/28/75 0830	S050 S050	3.72	9.0 102	71.0F 21.6C	8.0 8.0	382 393	23 1.15	8.6 1.71	38 1.65	--	0	77 1.26	39 1.81	31 1.44	--	.10	--	193 198	93 30	1.7
09/11/75 1000	S050 S050	3.46	7.3 85	73.0F 23.0C	7.6 8.0	330 411	21 1.05	12 1.05	40 2.18	--	0	98 1.61	43 1.90	47 1.33	--	.20	--	232 211	104 22	1.7

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLER LAB	G+M Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					REMARKS	
						CA	MG	NA	K	CO3	PERCENT REACTANCE	SIO4 CL	NO3	B	F	TDS SUM	TH NM	TURB SAR			
B0 7885.00 SAN JOAQUIN RIVER AT FRIANT DAM																					
12/10/74	5050	1.84	10.3	49.1F	6.8	40	4.2	1.3	4.4	--	0	20	3.3	3.0	2.0	.00	--	44	16	EX	
1400	5050	91	9.5C	7.1	53	41	.21	.15	.11	--	.00	.33	.07	.08	.03	--	--	28	0	0.5	
04/02/75	5050	2.07	10.0	50.0F	7.0	52	6.7	1.8	7.4	--	0	34	1.8	4.4	--	.10	--	40	24	A	
0720	5050	89	10.0C	7.3	80	43	.33	.15	.32	--	.00	.56	.04	.13	--	--	39	0	0.7	T	
05/27/75	5050	2.47	12.0	53.0F	7.5	100	3.9	1.1	4.8	--	0	20	1.0	4.2	--	.00	--	35	14	A	
1000	5050	111	11.7C	7.2	51	39	.19	.09	.21	--	.00	.33	.02	.12	--	--	25	0	0.6	T	
09/16/75	5050	2.16	6.4	52.7F	6.8	30	3.9	.6	3.6	--	0	16	2.5	2.0	--	.00	--	36	12	EX	
0700	5050	59	11.5C	7.6	45	48	.19	.05	.16	--	.00	.26	.05	.06	--	--	20	0	0.4	T	
B0 7886.50 SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE																					
10/08/74	5050	11.0	9.9F	6.8	30	3.7	.7	3.0	--	0	18	.2	.05	--	.00	--	40	12	EX		
0615	5050	97	9.5C	7.5	43	18	.06	.13	--	.00	.30	.00	.01	--	--	--	17	0	0.4	T	
07/09/75	5050	9.3	52.7F	6.8	30	--	--	--	--	0	14	--	--	--	--	--	30			E	
0700	5050	86	11.5C	6.8	36	--	--	--	--	.00	.23	--	--	--	--	--				S	
B3 1158.10 STANISLAUS RIVER BELOW TULLOCK DAM																					
12/20/74	5050	12.92	11.1	56.9F	7.4	55	8.7	1.8	2.5	--	0	36	3.1	.0	.08	.00	--	44	29	A	
0930	5050	100	10.5C	7.0	70	43	.15	.11	--	.00	.04	.00	.01	--	--	--	34	1	0.2	T	
04/04/75	5050	11.6	48.2F	7.3	65	8.4	4.4	3.5	--	0	47	6.4	1.0	--	.10	--	52	39		A	
0700	5050	101	9.0C	7.6	94	42	.36	.15	--	.00	.77	.13	.03	--	--	--	47	1	0.2	T	
05/29/75	5050	11.0	55.4F	8.4	32	26	2.1	2.0	--	0	20	1.2	1.0	--	.00	--	27	15		E	
0630	5050	105	13.0C	7.0	37	1.30	.17	.09	--	.00	.33	.02	.03	--	--	--	42	57	0.1	T	
09/17/75	5050	15.50	10.4	77.0F	7.9	90	8.6	4.2	4.0	--	0	48	9.4	2.0	--	.00	--	64	39		E
1630	5050	126	25.0C	7.7	96	45	.37	.18	--	.00	.79	.26	.06	--	--	--	52	0	0.3	T	
B3 1400.50 STANISLAUS RIVER AT PARROTTS FERRY BRIDGE																					
05/29/75	5050	11.2	51.8F	8.4	30	4.1	.7	1.8	--	0	16	3.3	.9	--	.00	--	53	13		E	
0800	5050	104	11.0C	7.6	34	5.9	.08	.08	--	.00	.26	.07	.03	--	--	--	19	0	0.2	T	
06/18/75	5050	10.0	55.4F	8.3	25	--	--	--	--	0	16	--	--	--	--	--	30			E	
1130	5050	97	13.0C	7.4	30	--	--	--	--	.00	.26	--	--	--	--	--				S	
09/17/75	5050	9.4	61.7F	7.3	35	5.6	.5	1.8	--	0	23	2.5	.0	--	.00	--	31	16		E	
1230	5050	98	16.5C	7.7	41	.28	.04	.08	--	.00	.38	.05	.00	--	--	--	22	0	0.2	T	
B3 2110.10 STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PARK																					
06/18/75	5050	9.9	53.8F	6.8	18	--	--	--	--	0	10	--	--	--	--	--	24			E	
1330	5050	93	12.0C	7.0	20	--	--	--	--	.00	.16	--	--	--	--	--				S	
09/17/75	5050	8.2	66.2F	7.2	28	--	--	--	--	0	17	--	--	--	--	--	24			E	
1400	5050	90	19.0C	7.7	31	--	--	--	--	.00	.28	--	--	--	--	--				S	
B3 3255.00 STANISLAUS RIVER MIDDLE FORK AT REARDSLEY																					
06/18/75	5050	9.9	49.6F	8.3	25	--	--	--	--	0	14	--	--	--	--	--	34			EX	
0900	5050	98	9.8C	7.4	34	--	--	--	--	.00	.30	--	--	--	--	--				S	
09/17/75	5050	8.6	60.8F	7.2	35	--	--	--	--	0	24	--	--	--	--	--	33			EX	
0930	5050	98	16.0C	7.6	46	--	--	--	--	.00	.39	--	--	--	--	--				S	
B3 3480.10 STANISLAUS RIVER MIDDLE FORK AT DAROANELLE																					
06/18/75	5050	9.9	40.8F	8.1	20	--	--	--	--	0	20	--	--	--	--	--	33			EX	
0830	5050	95	4.9C	7.5	32	--	--	--	--	.00	.33	--	--	--	--	--				S	
09/17/75	5050	8.3	58.1F	7.0	20	--	--	--	--	0	16	--	--	--	--	--	20			A	
0800	5050	100	14.5C	7.7	29	--	--	--	--	.00	.26	--	--	--	--	--				S	
B4 1265.50 TUOLUMNE RIVER ABOVE DON PEDRO RESERVOIR																					
12/20/74	5050	11.6	48.2F	6.8	20	2.2	.4	1.2	--	0	10	1.3	.2	.1	.00	--	16	7		E	
1100	5050	107	9.0C	6.9	20	.11	.03	.05	--	.00	.16	.03	.01	.00	--	--	10	0	0.2	T	
B4 1290.10 TUOLUMNE RIVER AT MAROS FERRY BRIDGE																					
05/29/75	5050	10.9	53.8F	7.2	20	1.4	.8	1.4	--	0	10	.0	1.4	--	.00	--	21	7		E	
0915	5050	104	12.0C	7.2	20	.07	.07	.06	--	.00	.16	.00	.04	--	--	--	10	0	0.2	T	
06/04/75	5050	11.0	11.7F	6.8	12	--	--	--	--	0	6	--	--	--	--	--	18			E	
1100	5050	51	11.3C	6.8	15	--	--	--	--	.00	.10	--	--	--	--	--				S	
09/24/75	5050	8.1	80.6F	7.4	50	4.7	1.8	1.9	--	0	23	3.3	.0	--	.00	--	30	19		E	
1230	5050	103	27.0C	8.2	49	.23	.15	.08	--	.00	.38	.07	.00	--	--	--	23	0	0.2	T	

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLER LAB	G+H DEPTH	OD 54T	TEMP	FIELD LABORATORY PM EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANTS PER LITER				MILLIGRAMS PER LITER				REMARKS		
						Ca	Mg	Na	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM		TH NCH	TURB SAR
H4 1680.00 TUOLUMNE RIVER ABOVE EARLY INTAKE																				
06/04/75	5050		10.6	49.6F	6.8	10	--	--	--	0	3	--	--	--	--	--	15			E
0900	5050		101	7.8C	6.6	11	--	--	--	.00	.05	--	--	--	--	--				S
09/24/75	5050		9.6	56.8F	6.8	9	--	--	--	0	5	--	--	--	--	--	6			S
0930	5050		100	13.8C	6.1	10	--	--	--	.00	.08	--	--	--	--	--				
H4 1850.10 TUOLUMNE RIVER AT TUOLUMNE MEADOWS																				
06/04/75	5050		9.5	35.8F	6.8	4	--	--	--	0	2	--	--	--	--	--	13			EX
0630	5050		9.5	2.1C	6.7	10	--	--	--	.00	.03	--	--	--	--	--				
09/24/75	5050		7.9	46.9F	7.0	18	--	--	--	0	9	--	--	--	--	--	17			X
0700	5050		93	8.3C	7.8	30	--	--	--	.00	.15	--	--	--	--	--				S
HS R 735.7 016+2 1 LAKE MCCLURE NEAR MCCLURE POINT																				
07/10/75	5050		10.7		8.3	5.2	1.9	1.9	.7	0	24	2.6	.5	.1	.00	--	33	21	0.2	T
	5050				8.2	53	.26	.16	.08	.02	.00	.39	.05	.01	.00	--	25	2	0.2	T
							50	31	15	4		87	11	2						
HS R 736.7 007+9 1 LAKE MCCLURE AT BAGBY																				
09/03/75	5050		8.7		7.0	4.8	1.1	2.3	.6	0	20	1.8	1.0	--	.00	--	38	17	0.2	E
1100	5050				7.3	48	.24	.09	.10	.02	.00	.33	.04	.03	--	--	21	0	0.2	T
							53	20	22	4		83	10							
HS 1200.00 MERCER RIVER BELOW EXCHEQUER DAM																				
12/20/74	5050		9.7	54.5F	6.8	35	4.2	1.8	1.8	--	0	18	2.6	1.0	.8	.00	--	30	18	E
1330	5050		92	12.5C	7.1	42	.21	.15	.08	--	.00	.30	.05	.03	.01	--	21	3	0.2	T
							.48	.34	.18			77	13	8	3					
04/04/75	5050		11.9	44.1F	7.4	45	6.3	1.8	2.3	--	0	27	3.3	.8	--	.00	--	36	23	X
1010	5050		105	9.5C	7.5	80	.31	.15	.10	--	.00	.44	.07	.02		--	28	1	0.2	T
							55	27	18			83	13	4						
05/29/75	5050		9.1	53.6F	7.2	35	4.5	2.2	2.6	--	0	24	3.3	1.4	--	.00	--	45	20	EX
0930	5050		87	12.0C	7.1	52	.22	.18	.11	.08	.39	.07	.04		--	--	26	1	0.3	T
							43	35	22			78	14	8						
09/03/75	5050		9.0	55.0F	7.5	30	2.8	1.0	1.4	.2	0	12	1.5	.0	--	.00	--	21	11	T
0800	5050		20.6		12.8C	7.0	.14	.08	.06	.01	.00	.20	.03	.00	--	--	13	1	0.2	
							.40	.28	.21	3		87	13							
HS 1320.50 MERCER RIVER AT BAGBY																				
11/13/74	5050		11.2	70.7F	7.1	63	10	1.7	4.4	--	0	38	.0	3.7	--	.00	--	55	32	X
1530	5050		129	21.5C	7.6	92	.50	.14	.19	--	.00	.62	.00	.10		--	38	1	0.3	T
							.60	.17	.23			.86		.14						
05/29/75	5050		9.7	69.8F	7.1	30	3.6	.7	1.9	--	0	15	.0	2.4	--	.00	--	28	12	E
1100	5050		131	21.0C	7.2	36	.18	.06	.08	--	.00	.25	.00	.07		--	16	0	0.2	T
							58	19	25			78		.22						
HS 1410.10 MERCER RIVER ABOVE PRICEBURG																				
11/13/74	5050		12.0	50.0F	7.3	40	6.8	1.2	4.0	--	0	27	5.4	3.4	--	.00	--	44	22	X
1330	5050		110	10.0C	7.7	88	.34	.10	.17	--	.00	.44	.11	.10		--	34	0	0.4	T
							58	16	.28			.68	.17	.15						
HS 1517.10 MERCER RIVER BELOW EL PORTAL																				
11/13/74	5050		11.1	47.5F	7.3	37	4.9	.4	3.2	--	0	20	.0	1.6	--	.00	--	36	14	EX
1130	5050		101	8.6C	7.4	50	.24	.03	.14	--	.00	.33	.00	.05		--	20	0	0.4	T
							.59	.7	.34			.87		.13						
HS 1519.50 MERCER RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140																				
11/13/74	5050		8.1	45.0F	6.8	38	3.5	.8	2.8	--	0	14	.0	2.6	--	.00	--	31	12	EX
0930	5050		76	7.2C	6.9	42	.17	.07	.12	--	.00	.23	.00	.07		--	17	1	0.4	T
							.47	.19	.33			.77		.23						
HS 1700.00 MERCER RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE																				
11/13/74	5050		1.37	40.6F	7.0	23	3.0	.4	2.4	--	0	9	.0	3.3	--	.00	--	29	9	EX
0715	5050		101	4.8C	7.1	34	.19	.03	.10	--	.00	.15	.00	.09		--	14	2	0.3	T
							.54	.11	.36			.63		.38						
HS 1512.10 BEAR CREEK ABOVE BEAR CREEK RESERVOIR																				
02/05/75	5050		10.8	49.1F	7.5	75	8.0	5.6	5.1	--	0	51	10	.8	--	.10	--	96	43	EX
1445	5050		300E	9.4	9.5C	7.5	105	.40	.46	.22	--	.00	.84	.21	.02	--	55	1	0.3	T
							.37	.43	.20			.79	.20	.2						
03/12/75	5050		10.6	52.7F	8.0	132	15	10	8.6	--	0	101	8.9	4.0	--	.10	--	108	81	X
1100	5050		65	9.8	11.5C	8.1	148	.75	.82	.37	--	.00	1.66	.19	.11	--	96	0	0.4	
							.39	.42	.19			.85	.10	.6						
04/16/75	5050		9.5	59.9F	7.9	185	20	12	10	--	0	127	9.0	5.7	--	.00	--	144	101	X
1430	5050		15	9.6	15.5C	7.9	237	1.00	.99	.44	--	.00	2.08	.19	.16	--	119	0	0.4	
							.41	.41	.18			.86	.8	.7						
HS 6152.50 BURNS CREEK AT MERCER MARIPOSA COUNTY LINE																				
02/05/75	5050		10.2	52.7F	7.5	105	11	7.9	7.3	--	0	64	15	2.0	--	.10	--	121	60	EX
1825	5050		50E	9.1	11.5C	7.6	148	.55	.85	.32	--	.00	1.05	.31	.06	--	75	8	0.4	T
							.36	.43	.21			.74	.22	.4						
03/12/75	5050		10.5	51.3F	7.4	156	16	13	12	--	0	112	15	8.1	--	.10	--	143	93	X
0930	5050		35	9.6	10.7C	7.7	227	.80	1.07	.52	--	.00	1.84	.31	.17	--	117	2	0.5	
							.33	.45	.22			.79	.13	.7						
04/16/75	5050		10.3	53.6F	8.0	205	21	16	14	--	0	144	19	6.8	--	.00	--	158	118	X
0915	5050		8.0	9.6	12.0C	8.0	283	1.05	1.32	.61	--	.00	2.36	.40	.19	--	148	1	0.6	
							.35	.44	.20			.80	.14	.6						

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLER LAB	G.M. DEPTH	OD SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS			
						CA	MG	NA	K	CD3 HCO3	PERCENT REACTANCE	VALU SO4 CL NO3	8 SIO2	F TDS SUM	TH NCH	TURB SAR					
B6 2020.10 OWENS CREEK ABOVE OWENS RESERVOIR																					
02/05/75	5050		10.8	50	F 7.8	115	14	8.0	8.2	--	0	84	8.9	2.7	--	20	--	140	60	0.4	EA
1250	5050	75E	97	10	C 7.8	168	41	38	21	0.00	1.34	19	84	12	5	--	--	83	0		T
03/12/75	5050		11.0	52	F 8.2	210	26	17	15	--	0	171	9.2	8.2	--	10	--	180	134		X
0920	5050	12	101	11	C 8.1	304	130	140	65	0.00	2.80	19	87	6	7	--	--	160	0	0.6	
04/16/75	5050		11.3	50.0F	8.4	249	30	17	16	--	0	186	7.9	9.3	--	00	--	197	144		X
1245	5050		113	15.0C	8.2	326	150	140	70	0.00	3.05	16	88	5	7	--	--	172	0	0.6	
B6 2204.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR																					
02/05/75	5050		11.1	47.3F	7.4	60	8.3	7.0	5.0	--	0	51	7.7	1.2	--	10	--	89	53		EA
1040	5050	200E	96	8.5C	7.4	104	41	65	22	0.00	84	16	84	16	3	--	--	55	11	0.3	T
03/12/75	5050		11.3	54.0F	8.2	121	11	10	8.6	--	0	87	8.7	3.5	--	10	--	100	69		A
1100	5050	121	107	12.2C	8.1	168	55	42	37	0.00	1.43	18	84	11	6	--	--	85	0	0.5	
04/16/75	5050		10.9	53.6F	8.2	135	15	9.8	8.6	--	0	90	6.1	3.6	--	00	--	114	78		A
1200	5050		102	12.0C	7.9	184	39	42	19	0.00	1.62	13	10	5		--	--	92	0	0.4	
B6 4200.00 CHONCHILLA RIVER NR RAYMOND																					
12/11/74	5050	6A.70	11.3	49.1F	7.4	230	28	6.1	28	--	0	88	5.4	5.6	2	10	--	222	65		X
1340	5050		101	9.5C	8.1	353	140	50	122	0.00	1.44	11	1.58	40	50	--	--	167	23	1.3	T
04/02/75	5050		11.2	50.9F	7.5	92	12	3.4	11	--	0	65	4.4	6.6	--	00	--	95	44		EA
5050	5050		102	10.5C	7.8	133	60	28	48	0.00	1.07	09	19	7	14	--	--	69	0	0.7	T
05/28/75	5050	2.03	8.1	78.8F	7.8	165	16	1.4	13	--	0	70	0	13	--	00	--	119	46		E
1445	5050		101	26.0C	8.1	157	80	12	57	0.00	1.15	00	37			--	--	78	0	0.6	T
09/16/75	5050		7.6	69.8F	7.3	370	36	7.3	42	--	0	90	2.0	89	--	00	--	283	120		X
0800	5050		86	21.0C	8.0	468	180	60	183	0.00	1.92	04	2.51	1	60	--	--	225	39	1.7	T
B6 7150.00 FRESNO RIVER NR DAULTON																					
12/11/74	5050		11.2	46.4F	7.2	110	12	2.7	15	--	0	51	4.3	20	3	10	--	110	41		X
1300	5050		96	8.0C	7.6	158	60	22	45	0.00	84	09	56	00		--	--	79	0	1.0	T
04/02/75	5050		11.2	51.8F	7.3	85	11	2.6	11	--	0	57	5.1	6.5	--	00	--	80	38		X
0930	5050		103	11.0C	7.6	123	55	21	48	0.00	93	11	18			--	--	64	0	0.6	
05/28/75	5050		8.4	71.6F	8.2	65	4.3	2.6	5.5	--	0	31	0	4.2	--	00	--	53	21		E
1410	5050		108	22.0C	7.7	70	21	21	24	0.00	0.50	00	12	19		--	--	32	0	0.5	T
B7 1100.00 SAN JOAQUIN RIVER BELDNER KERCKHOFF NEAR PRATHER																					
10/10/74	5050	5.71	65.5F	7.1	28	2.3	0.8	3.0	--	0	12	1.2	2.2	--	00	--	16	9			
5050	5050		18.6C	7.0	20	28	11	07	13	0.00	20	02	06			--	--	15	0	0.4	
12/10/74	5050		10.9	49.1F	7.1	25	2.7	0.8	3.0	--	0	13	2.1	2.4	1.3	10	--	35	10	0.4	EX
1100	5050		97	9.5C	6.9	36	13	07	13	0.00	21	04	07	02		--	--	19	0		T
05/27/75	5050		11.7	52.0F	7.2	33	9	1.0	1.8	--	0	9	0	2.8	--	00	--	23	6		EX
1110	5050		108	11.1C	7.1	21	04	08	08	0.00	15	00	08	35		--	--	11	0	0.3	T
09/16/75	5050		8.7	63.0F	6.7	23	2.6	1.1	1.9	--	0	10	2.1	0	--	00	--	20	7		E
1400	5050		92	17.2C	7.7	23	13	01	08	0.00	16	04	00			--	--	12	0	0.3	T
B7 1108.00 KERCKHOFF RESERVOIR NEAR AUBERRY																					
10/10/74	5050		66.2F	7.0	26	2.6	0.1	3.0	--	0	13	0.6	0.8	--	00	--	14	7			
0001	5050		19.0C	6.9	28	13	01	13	0.00	21	01	02	08	4	8	--	--	13	0	0.5	
B7 1340.00 SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY																					
10/08/74	5050		8.4	49.5F	6.8	22	1.8	0.6	1.8	--	0	10	0	0.5	--	00	--	21	7		E
0830	5050		79	9.7C	7.2	24	09	05	08	0.00	16	00	01	6		--	--	10	0	0.3	T
07/09/75	5050		10.0	50.5F	6.8	15	--	--	--	0	6	--	--	--	--	--	--	20			E
0430	5050		97	12.5C	6.6	18	--	--	--	0.00	10	--	--	--	--	--	--	--	--	--	S
B7 1406.00 MUSIC CREEK # 1 NEAR SHAVER LAKE																					
11/08/74	5050	0.44	44	F	7.0	46	3.4	0.9	3.4	--	0	18	0.5	2.3	1	00	--	42	12		E
1400	5050	0.3	7	C	7.0	46	17	07	15	0.00	30	01	06	00		--	--	19	0	0.4	T
05/19/75	5050	0.99			7.1	35	3.1	0.8	2.6	--	0	17	0.6	2.4	--	00	--	30	11		E
1020	5050					35	15	07	11	0.00	28	01	07			--	--	18	0	0.3	T

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G+H DEPTH	DD SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				TURB SAM	REM		
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	8	F	TDS SUM			TH NCH	

H7 1408.00 MUSIC CREEK # 2 NEAR SHAVER LAKE																					
11/08/74	5050	1.00		43 F	56	4.6	1.3	4.2	--	0	28	0	1.3	.2	.00	--	48	17	0	E	
1500	5050	.1		8 C 7.3	55	2.4	.11	1.8	--	0	46	.00	.04	.00	--	--	25	0	0.4	T	
						44	21	35			92		8								
05/19/75	5050	1.42			7.1	34	3.1	.8	2.6	--	0	17	.6	2.5	--	.00	--	33	11	0	E
0920	5050					34	.15	.07	.11	--	0	28	.01	.07	--	--	18	0	0.3	T	
						45	21	33			74	3	19								
H7 1532.50 SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK																					
10/08/74	5050	9.7	65.3F	7.3	50	4.5	.7	4.8	--	0	21	1.0	3.2	--	.00	--	42	14		E	
1240	5050	114	18.5C	7.4	57	2.2	.06	.21	--	0	34	.02	.09		--	--	25	0	0.6	T	
						45	12	43			76	4	20								
07/09/75	5050	10.7	55.4F	8.1	15	--	--	--	--	0	7	--	--	--	--	--	16			E	
1230	5050	106	13.0C	7.1	16	--	--	--	--	0	.11	--	--	--	--	--	--			S	
H7 1910.00 FRIANT KERN CANAL AT FRIANT																					
04/02/75	5050	12.0	49.6F	7.2	30	3.6	1.0	4.2	--	0	19	3.3	2.6	--	.00	--	20	13		X	
0800	5050	107	9.8C	7.1	45	.18	.08	.18	--	0	.31	.07	.07		--	--	24	0	0.5	T	
						41	18	41			69	16	16								
05/27/75	5050	12.1	54.0F	7.1	44	2.3	1.3	3.3	--	0	17	.0	2.8	--	.00	--	44	11		E	
1030	5050	114	12.2C	7.4	38	.11	.11	.14	--	0	28	.00	.08		--	--	18	0	0.4	T	
						31	31	39			78		22								
09/16/75	5050	8.5	69 F	7.4	29	.1	1.8	--	0	10	1.8	.0	--	--	.00	--	20	7		E	
1300	5050	95	21 C	7.6	23	.13	.01	.08	--	0	.14	.04	.00		--	--	11	0	0.3	T	
						54	5	36			80	20									
H7 4250.50 SAN JOAQUIN RIVER SOUTH FORK AT HONO HOT SPRINGS																					
10/09/74	5050	9.4	47.3F	6.9	20	2.3	.4	2.1	--	0	9	.6	.8	--	.10	--	20	7		EX	
1200	5050	101	8.5C	7.0	27	.11	.03	.09	--	0	.15	.01	.02		--	--	11	0	0.3	T	
						48	13	39			83	6	11								
07/08/75	5050	7.4	62.6F	6.8	25	--	--	--	--	0	8	--	--	--	--	--	22			E	
0930	5050	10	97	17.0C	6.8	24	--	--	--	0	.13	--	--	--	--	--	--			S	
H8 1253.10 GRISWOLD CREEK ABOVE PANACHE VALLEY																					
12/03/74	5050					300	284	1380	19	0	566	3980	236	2.3	14.0	--	6530	1920		E	
1030	5050					4.3	7700	14.97	23.36	60.03	.49	0	9.28	82.86	6.66	.04	6494	1454	13.7	C	
						15	24	61			9	84	7								
CO 1140.00 KINGS RIVER BELOW PEOPLES WEIR																					
12/16/74	5050	2.73	10.7	50.0F	7.3	175	21	9.1	17	--	0	116	15	7.9	6.0	.00	150	90		X	
1005	5050	95	10.0C	7.2	248	1.05	.75	.74	--	0	1.90	.31	.22	.10	--	--	133	0	0.8	T	
						41	30	29			75	12	9	4							
03/04/75	5050	3.88	11.0	52.7F	7.0	38	4.8	1.4	3.5	--	0	22	3.1	2.5	--	.10	--	35	18		X
0930	5050	102	11.5C	7.3	51	.24	.12	.15	--	0	.36	.06	.07		--	--	26	0	0.4	T	
						47	24	29			73	12	14								
05/27/75	5050	9.9	62.6F	7.8	95	.41	1.7	3.4	--	0	30	.0	2.4	--	.00	--	57	17		EX	
0930	5050	109	17.0C	7.5	52	.20	.14	.15	--	0	.49	.00	.07		--	--	26	0	0.4	T	
						41	29	31			88		13								
09/03/75	5050	9.3	60.8F	7.2	40	3.9	1.3	2.8	--	0	20	2.0	2.0	--	.00	--	32	15			
1200	5050	105	21.0C	7.3	46	.14	.11	.12	--	0	.33	.04	.06		--	--	22	0	0.3	T	
						45	26	29			77	9	14								
CO 2185.00 KANEAH RIVER BELOW TEMINUS DAM																					
12/16/74	5050	11.3	51.6F	7.9	120	.95	.37	.44	--	0	79	8.1	6.4	1.4	.10	--	106	66		X	
1120	5050	104	11.0C	8.0	167	.54	.21	.25	--	0	1.29	.17	.18	.02	--	--	88	2	0.5	T	
						54	21	25			78	10	11	1							
03/04/75	5050	10.9	55.4F	7.6	125	19	4.2	11	--	0	83	8.2	8.2	--	.10	--	113	65		X	
1030	5050	105	13.0C	7.7	176	.95	.35	.48	--	0	1.36	.17	.23		--	--	92	0	0.6	T	
						53	20	27			77	10	13								
05/28/75	5050	11.1	57.2F	7.2	50	6.0	1.2	3.2	--	0	28	2.6	2.1	--	.00	--	49	20		E	
0810	5050	109	14.0C	7.2	54	.30	.10	.14	--	0	.46	.05	.06		--	--	29	0	0.3	T	
						56	19	26			81	9	11								
09/02/75	5050	8.6	78.6F	7.3	75	8.3	2.3	4.2	--	0	38	2.3	4.0	--	.00	--	50	30			
1200	5050	107	26.0C	7.4	79	.41	.19	.18	--	0	.62	.05	.11		--	--	40	0	0.3	T	
						53	24	23			79	6	14								
CO 2550.30 KANEAH RIVER AT LEMONCOVE																					
10/16/74	5050	9.8	70.0F	7.5	120	15	2.8	6.9	--	0	63	4.1	3.4	--	.00	--	72	49			
1430	5050	111	21.1C	7.6	126	.75	.23	.30	--	0	1.03	.09	.10		--	--	63	0	0.4	T	
						59	18	23			64	7	8								
04/23/75	5050	11.2	57.0F	7.4	112	--	--	--	--	0	56	--	--	--	--	--	69				
1400	5050	110	13.9C	7.7	108	--	--	--	--	0	.92	--	--	--	--	--	--			S	
08/06/75	5050	8.6	74.3F	7.1	50	--	--	--	--	0	25	--	--	--	--	--	38			E	
1400	5050	102	23.5C	7.0	51	--	--	--	--	0	.41	--	--	--	--	--	--			S	
CO 3195.00 TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE																					
10/30/74	5050	7.8	64.4F	7.7	232	24	11	12	--	0	148	5.1	5.4	--	.00	--	151	108			
1500	5050	89	16.0C	7.6	270	1.20	.96	.52	--	0	2.43	.11	.15		--	--	131	0	0.5	T	
						45	36	19			90	4	6								
04/09/75	5050	11.8	56.3F	7.8	180	--	--	--	--	0	73	--	--	--	--	--	150			X	
1320	5050	115	13.5C	8.0	240	--	--	--	--	0	1.20	--	--	--	--	--	--			S	

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. DEPTH	OD SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER EQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS			
							CA	MG	Na	K	CO ₃	PERCENT REACTANCE VALUE	MOD ₃	SO ₄	CL	NO ₃	8	F		TDS SUM	TH NCH	TURB SAR
CO 3195.00 TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE CONTINUED																						
08/20/75	5050		8.0	75.2F	7.0	145	--	--	--	0	93	--	--	--	--	--	--	97				
1430	5050		96	24.0C	7.6	166	--	--	--	.00	1.52	--	--	--	--	--	--	--			S	
09/02/75	5050	5.51	7.4	86.6F	7.2	200	20	5.6	9.8	--	0	105	1.2	5.9	--	--	--	119	73	0	0.5	T
1330	5050		94	27.0C	7.7	192	1.00	.46	.43	.00	1.72	.02	.17	.1	.9	--	--	94				
CO 3196.00 TULE RIVER BELOW SUCCESS DAM																						
12/16/74	5050	6.37	7.7	59.9F	7.5	345	.45	.20	.22	--	0	266	8.6	8.0	2.7	.10	--	256	198	0	0.7	X
1400	5050		78	15.5C	8.3	448	2.25	1.71	.96	.00	.426	.14	.23	.04	.3	.1	--	236				
03/04/75	5050	3.05	11.9	53.2F	8.0	196	32	7.5	17	--	0	153	7.9	10	--	--	--	173	111	0	0.7	X
1230	5050		111	11.8C	7.9	279	1.60	.62	.74	.00	2.51	.16	.28	.5	.9	--	--	150				
05/27/75	5050	3.94	11.2	57.2F	7.4	170	24	5.4	12	--	0	118	5.1	5.2	--	--	--	144	82	0	0.6	X
1600	5050		110	14.0C	7.9	214	1.20	.44	.52	.00	1.93	.11	.15	.5	.7	--	--	110				
CO 5150.00 KEAN RIVER NR BAKERSFIELD																						
12/17/74	5050	11.7	49.1F	8.3	105	11	3.0	.13	--	0	60	9.2	4.1	.9	.9	.20	--	74	40	0	0.9	X
1010	5050	104	9.5C	8.0	134	.55	.25	.57	.40	.00	.98	.19	.12	.01	.75	.15	.9	--	71			
03/05/75	5050	10.9	51.8F	7.4	100	11	2.9	.14	--	0	63	8.7	6.5	--	--	--	--	83	40	0	1.0	X
1200	5050	100	11.0C	7.7	142	.55	.24	.61	.44	.00	1.76	.18	.16	.1	.74	.13	.9	--	74			
05/27/75	5050	9.8	68.0F	8.0	115	8.7	3.5	.12	--	0	97	7.9	4.0	--	--	--	--	78	36	0	0.9	
1150	5050	109	20.0C	7.7	124	.43	.29	.52	.42	.00	.93	.16	.11	--	--	--	--	64				
09/03/75	5050	8.4	71.6F	7.6	100	9.2	2.2	9.8	--	0	50	3.1	4.4	--	--	--	--	64	32			
0945	5050	97	22.0C	7.7	111	.46	.18	.43	.40	.00	.82	.06	.12	--	--	--	--	53	0	0.8		
CO 5160.10 KEAN RIVER AT MART PARK																						
10/02/74	5050	9.6	7.7		9.4	1.6	10	--	0	47	6.2	3.2	--	--	--	--	--	66	30	0	0.8	
1300	5050		104	7.1	103	.47	.13	.44	.00	.77	.13	.19	--	--	--	--	--	54				
03/05/75	5050	11.1	52.7F	8.4	105	12	3.2	.14	--	0	65	18	5.7	--	--	--	--	80	43	0	0.9	X
1245	5050	103	11.5C	7.7	144	.60	.26	.61	.41	.00	1.07	.27	.16	--	--	--	--	85	0	0.9		
07/23/75	5050	8.3	73.4F	7.4	97	--	--	--	--	0	.45	--	--	--	--	--	--	56				
1400	5050	98	23.0C	7.5	98	--	--	--	--	.00	.74	--	--	--	--	--	--	--				
CO 5166.10 KEAN RIVER AT RANCHERIA BRIDGE																						
10/02/74	5050	9.3	7.7		9.1	1.8	10	--	0	48	5.3	3.0	--	--	--	--	--	55	30	0	0.8	
1200	5050		7.5	104	.45	.15	.44	.00	.78	.11	.08	--	--	--	--	--	--	53				
03/05/75	5050	10.6	50.9F	7.5	100	12	2.7	.14	--	0	64	12	5.3	--	--	--	--	82	41	0	1.0	X
1140	5050	97	10.5C	7.5	143	.60	.22	.61	.42	.00	1.05	.25	.15	--	--	--	--	78	0	1.0		
07/23/75	5050	8.2	73.4F	7.5	93	--	--	--	--	0	.44	--	--	--	--	--	--	60				
1330	5050	97	23.0C	7.5	97	--	--	--	--	.00	.72	--	--	--	--	--	--	--				
C1 1115.50 KINGS RIVER NEAR PIEDRA																						
10/23/74	5050	10.2	61.7F	7.2	25	2.7	.6	1.2	--	0	11	1.0	.0	--	--	--	--	22	9	0	0.2	E
1545	5050	106	16.5C	7.4	27	.13	.05	.05	.22	.00	.18	.02	.00	--	--	--	--	11	0	0.2		
05/07/75	5050	11.9	51.8F	8.4	30	--	--	--	--	0	.19	--	--	--	--	--	--	28				
1100	5050	109	11.0C	7.4	42	--	--	--	--	.00	.31	--	--	--	--	--	--	--				
C1 1140.00 KINGS RIVER BELOW PINE FLAT RESERVOIR																						
12/10/74	5050	0.89	9.5	52.7F	7.2	25	2.7	.6	1.6	--	0	13	1.3	.2	.5	.00	--	21	10	0	0.2	E
0850	5050		89	11.5C	7.0	26	.13	.07	.07	.00	.21	.03	.01	.01	.4	.4	--	13	0	0.2		
03/04/75	5050	5.30	10.8	48.0F	7.0	25	3.0	1.1	2.6	--	0	16	2.1	1.0	--	--	--	27	12	0	0.3	EA
0735	5050		88	9.2C	7.0	37	.15	.09	.11	.00	.26	.04	.03	--	--	--	--	18				
05/28/75	5050	6.87	11.8	54.5F	7.2	40	4.2	1.1	3.4	--	0	20	3.0	1.4	--	--	--	43	15	0	0.4	E
1000	5050		113	12.5C	7.1	45	.21	.09	.15	.00	.33	.06	.04	--	--	--	--	23	0	0.4		
09/02/75	5050	4.69	9.6	59.0F	8.4	15	1.5	.8	1.2	--	0	9	1.5	1.0	--	--	--	19	7	0	0.2	EX
0700	5050		97	15.0C	7.2	21	.07	.07	.05	.00	.15	.03	.03	--	--	--	--	10	0	0.2		
C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																						
10/23/74	5050	1.38	10.1	66.2F	7.9	130	12	2.7	11	--	0	57	5.9	.12	--	--	--	103	41	0	0.7	T
1330	5050		112	14.0C	7.7	148	.60	.22	.40	.00	.93	.12	.14	--	--	--	--	72				
05/07/75	5050	2.86	10.3	55.4F	7.4	50	--	--	--	--	0	.34	--	--	--	--	--	50				
1230	5050		101	13.0C	7.4	66	--	--	--	.00	.56	--	--	--	--	--	--	--				

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REMARKS
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	8	F	105	TM	
C1 1400.00 KINGS RIVER BELOW NORTH FORK																		
10/23/74	5050		10.6	59.0F	7.3	45	5.4	8	3.4	--	0	24	2.6	.9	--	4.3	17	E
1215	5050		108	15.0C	7.4	55	2.7	15	3.3	.00	33	.05	.03	--	--	25	0	0.4
							55	14	31			83	11	6				
05/07/75	5050	5.26	10.9	55.0F	7.2	30	--	--	--	.00	18	--	--	--	--	26		x
1340	5050		106	12.8C	7.3	40					.30							S
05/28/75	5050		11.4	55.4F	8.3	20	1.1	8	1.2	--	0	7	.0	1.4	--	.00	--	E
1115	5050		111	13.0C	7.1	18	.05	.07	.05	.00	.11	.00	.04	--	--	8	1	0.2
							29	41	29			73	27					T
09/02/75	5050		9.1	66.2F	7.5	35	4.6	1.8	3.2	--	0	20	3.3	1.0	--	.00	--	EA
0900	5050		101	19.0C	7.5	47	.23	.15	.14	.00	.33	.07	.03	--	--	34	19	T
							44	29	27			77	16	7			3	0.3
C1 1415.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																		
10/23/74	5050		10.1	44.8F	7.3	34	4.6	4	3.4	--	0	15	5.3	1.6	--	.00	--	EX
0830	5050		98	7.1C	7.4	55	.23	.03	.15	.00	.25	.11	.05	--	--	39	13	T
							56	7	37			61	27	12			1	0.4
05/07/75	5050		11.6	41.0F	7.6	22	--	--	--	.00	10	--	--	--	--	18		x
0730	5050	7.00	105	15.0C	7.4	35					.16							S
C2 1210.30 KANEAH RIVER ABOVE LAKE KANEAH																		
10/16/74	5050		9.6	68.0F	7.6	125	17	2.1	8.3	--	0	68	4.5	5.7	--	.00	--	
1245	5050		107	26.0C	8.0	139	.85	.17	.30	.00	1.11	.09	.19	--	--	86	51	
							62	12	26			82	7	12		71	0	0.5
04/23/75	5050		10.4	57.0F	7.5	92	--	--	--	.00	42	--	--	--	--	55		
1300	5050		103	13.9C	7.6						.69							S
08/06/75	5050		8.0	77.9F	7.8	80	--	--	--	.00	43	--	--	--	--	58		
1300	5050		99	25.5C	7.5	84					.70							S
C2 1250.00 KANEAH RIVER AT THREE RIVERS																		
12/16/74	5050		12.0	45.5F	7.4	65	12	2.0	4.8	--	0	51	3.3	2.4	.2	.00	--	x
1235	5050		107	7.5C	7.5	111	.60	.16	.21	.00	.84	.07	.07	.00	--	66	38	T
							62	16	22			86	7	7		50	0	0.3
05/28/75	5050		10.6	55.4F	7.3	35	4.3	8	1.9	--	0	19	.0	1.9	--	.00	--	E
0745	5050		103	13.0C	7.3	55	.21	.07	.68	.00	.31	.00	.05	--	--	35	14	T
							58	19	22			86	14			18	0	0.2
09/02/75	5050		8.8	71.6F	7.5	95	12	2.2	5.8	--	0	52	2.5	5.9	--	.00	--	
1230	5050		103	22.0C	7.9	107	.60	.18	.25	.00	.85	.05	.17	--	--	54	39	T
							58	17	24			79	5	16			0	0.4
C2 2010.30 KANEAH RIVER NORTH FORK NEAR MOUTH																		
10/16/74	5050		7.4	61.3F	7.6	158	24	4.1	7.9	--	0	102	3.7	2.5	--	.00	--	
0950	5050	2.0	78	15.7C	8.0	172	1.20	.34	.34	.00	1.67	.08	.07	--	--	114	77	
							64	18	18			92	4	4		92	0	0.4
04/23/75	5050		10.8	53.0F	7.4	84	--	--	--	.00	50	--	--	--	--	64		
1015	5050		102	11.7C	7.7	92					.82							S
08/06/75	5050		8.1	75.2F	7.6	114	--	--	--	.00	74	--	--	--	--	89		E
0930	5050		98	24.0C	7.5	125					1.21							S
C2 3147.00 KANEAH RIVER WF BELOW NO 2 INTAKE NR THREE RIVERS																		
10/16/74	5050		9.2	59.0F	7.6	82	11	2.3	6.8	--	0	50	2.9	3.1	--	.00	--	
0820	5050		95	15.0C	7.7	98	.55	.19	.30	.00	.62	.06	.09	--	--	56	37	
							53	18	24			85	6	9		51	0	0.5
04/23/75	5050		12.0	47.0F	7.4	54	--	--	--	.00	28	--	--	--	--	32		
0900	5050		107	8.3C	7.3	55					.46							S
08/06/75	5050		8.1	76.7F	7.2	52	--	--	--	.00	31	--	--	--	--	45		E
0830	5050		95	21.5C	7.2	62					.51							S
C2 4201.50 KANEAH RIVER SOUTH FORK ABOVE GROUSE CREEK																		
10/16/74	5050		9.0	64.9F	7.7	140	21	3.3	8.3	--	0	90	4.1	3.9	--	.00	--	
1115	5050	2.0	101	18.3C	7.9	157	1.05	.27	.36	.00	1.48	.09	.11	--	--	100	66	
							63	16	21			88	5	7		85	0	0.4
04/23/75	5050		11.0	50.0F	7.5	98	--	--	--	.00	51	--	--	--	--	63		
1150	5050		104	1.0C	7.7	93					.84							S
08/06/75	5050		8.2	71.6F	8.0	110	--	--	--	.00	67	--	--	--	--	80		
1130	5050		99	22.0C	7.6	124					1.10							S

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	0+M DEPTH	00 SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					REMARKS
							CA	MG	NA	K	CO3	PERCENT HCO3	SO4	CL	NO3	REACTANCE VALUE	8	F	TDS SUM	TH NCH	TURB SAR	
C3 1929.30 TULE RIVER BELOW SPRINGVILLE																						
10/30/74	5050			12.1	57.0F	8.3	275	12	27	19	--	0	199	7.2	12	--	.10	--	204	144	X	
1140	5050			119	13.9C	8.1	377	.60	2.28	.83	.00	3.26	.15	.34		--	--	176	0	0.7		
12/16/74	5050	3.75	11.6	51.8F	8.1	255	44	7.8	19	--	0	198	6.4	9.6	.1	.10	--	214	142	X		
1440	5050		107	11.0C	8.3	346	2.20	.64	.83	.00	3.25	.13	.27	.00		--	--	184	0	0.7		
04/09/75	5050		11.2	50.4F	8.2	130	--	--	--	--	0	105	--	--	--	--	--	133			EX	
1100	5050		102	16.2C	8.1	188	--	--	--	--	.00	1.72	--	--	--	--	--				S	
05/27/75	5050	5.02	9.8	64.4F	8.0	78	11	1.8	4.6	--	0	49	.0	2.8	--	.00	--	65	35	E		
1530	5050		105	18.0C	7.8	92	.55	.15	.20	.00	.80	.00	.08			--	--	44	0	0.3	T	
08/20/75	5050	3.44	9.2	76.1F	8.0	300	--	--	--	--	0	199	--	--	--	--	--	194			S	
1200	5050		112	24.5C	8.2	336	--	--	--	--	.00	3.26	--	--	--	--	--				S	
09/02/75	5050	3.34	9.0	80.6F	8.1	310	40	9.0	20	--	1.0	201	4.6	11	--	.10	--	211	137		S	
1430	5050		114	27.0C	8.4	340	2.50	.74	.87	.03	3.29	.10	.31			--	--	185	0	0.7	S	
C3 2190.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD																						
10/30/74	5050		10.0	53.6F	7.7	271	34	11	25	--	0	166	9.4	28	--	.00	--	213	130		X	
0945	5050		97	12.0C	8.1	389	1.70	.90	1.09	.00	2.72	.20	.19			--	--	189	0	1.0		
04/09/75	5050		11.1	47.3F	7.4	62	--	--	--	--	0	46	--	--	--	--	--	71			EX	
0920	5050		99	8.5C	7.4	90	--	--	--	--	.00	.75	--	--	--	--	--				S	
08/20/75	5050		8.0	73.4F	7.2	260	--	--	--	--	0	159	--	--	--	--	--	185			S	
1000	5050		97	23.0C	7.6	299	--	--	--	--	.00	2.61	--	--	--	--	--				S	
C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPINGVILLE																						
10/30/74	5050	2.50	10.3	46.8F	8.2	232	30	14	20	--	0	211	4.8	12	--	.20	--	200	148		X	
0800	5050		95	8.2C	8.3	387	1.80	1.16	.87	.00	3.46	.10	.34			--	--	191	0	0.7		
04/09/75	5050		12.1	40.5F	8.2	180	--	--	--	--	3.0	184	--	--	--	--	--	194			X	
0800	5050		102	4.7C	8.5	308	--	--	--	--	.10	3.02	--	--	--	--	--				S	
08/20/75	5050		8.1	59.9F	8.2	215	--	--	--	--	0	217	--	--	--	--	--	147			X	
0830	5050		88	15.5C	8.0	364	--	--	--	--	.00	3.56	--	--	--	--	--				S	
C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREW CREEK																						
10/30/74	5050		9.6	59.0F	7.7	146	17	3.8	13	--	0	86	5.8	6.8	--	.00	--	120	58		T	
1340	5050		97	15.0C	7.6	182	.85	.31	.57	.00	1.41	.12	.19			--	--	89	0	0.7		
04/09/75	5050		10.8	52.2F	7.6	98	--	--	--	--	0	90	--	--	--	--	--	91			X	
1200	5050		101	11.2C	7.9	138	--	--	--	--	.00	1.48	--	--	--	--	--				S	
08/20/75	5050		8.1	80.6F	8.1	155	--	--	--	--	0	89	--	--	--	--	--	102			S	
1300	5050		103	27.0C	8.1	160	--	--	--	--	.00	1.46	--	--	--	--	--				S	
C4 4950.10 POSO CREEK BELOW GLENNVILLE																						
12/16/74	5050		9.8	50.0F	7.8	160	23	4.5	15	--	0	109	8.9	6.2	2.0	.00	--	148	76		X	
1620	5050		96	10.0C	8.1	217	1.15	.37	.65	.00	1.79	.19	.17	.03		--	--	113	0	0.7	T	
C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS																						
10/02/74	5050		8.6		7.4		9.2	1.7	9.8	--	0	49	5.1	3.1	--	.10	--	60	30			
1000	5050				7.4	103	.46	.14	.43	.00	.80	.11	.09			--	--	53	0	0.8		
03/05/75	5050		10.8	48.2F	7.4	100	12	2.7	14	--	0	65	9.4	5.4	--	.20	--	87	41		X	
1045	5050		100	9.0C	7.9	143	.60	.22	.61	.00	1.07	.20	.15			--	--	76	0	1.0		
07/23/75	5050		8.2	69.8F	7.5	90	--	--	--	--	0	75	--	--	--	--	--	60			S	
1130	5050		94	21.0C	7.3	95	--	--	--	--	.00	.72	--	--	--	--	--				S	
C5 1350.00 KERN RIVER BELOW ISABELLA DAM																						
12/17/74	5050	2.45	10.7	47.3F	7.3	85	10	2.2	10	--	0	56	6.9	2.9	.8	.10	--	64	34		A	
0915	5050		99	8.5C	8.2	122	.50	.18	.44	.00	.92	.14	.08	.01		--	--	60	0	0.7		
03/05/75	5050	6.32	10.7	47.3F	7.4	88	11	2.6	13	--	0	60	8.2	5.8	--	.20	--	76	38		X	
1030	5050		99	8.5C	7.7	134	.55	.21	.57	.00	.98	.17	.16			--	--	70	0	0.9		
05/27/75	5050	6.20	10.4	60.8F	7.3	90	9.1	2.1	10	--	0	49	4.3	4.7	--	.00	--		31		S	
1300	5050		114	16.0C	7.4	106	.45	.17	.44	.00	.80	.09	.13			--	--	54	0	0.8		
09/03/75	5050		7.8	69.8F	7.3	100	8.8	2.2	9.3	--	0	49	4.0	4.0	--	.10	--	60	31			
0900	5050		94	21.0C	7.3	107	.43	.18	.39	.00	.80	.08	.11			--	--	52	0	0.7		

TABLE D-2 (Cont'd)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G+H Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REMARKS			
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM		TH NCH	TURB SAR	
CS 1500.00 KERN RIVER AT KERNVILLE																					
10/02/74	5050		9.7		7.5	12	2.2	12	--	0	61	9.2	5.0	--	.10	--	91	39			
0745	5050				7.6	137	.60	.18	.52	.00	1.00	.19	.14		--	--	70	0	0.8	T	
							.46	.14	.40		.75	.14	.11								
12/17/74	5050		12.4	34.3F	7.9	90	13	1.6	15	--	0	66	9.9	.50	.45	.20	--	95	39	X	
0815	5050		102	3.5C	7.9	146	.65	.13	.45	.00	1.08	.21	.14	.01	--	--	78	0	1.0		
							.45	.09	.45		.75	.15	.10	.1							
03/05/75	5050		10.3	45.5F		85	12	2.2	12	--	0	59	7.2	5.4	--	.20	--	86	39	X	
0615	5050		94	7.5C	7.7	128	.60	.18	.52	.00	.97	.15	.15		--	--	68	0	0.8	T	
							.46	.14	.40		.76	.12	.12								
05/27/75	5050		10.0	59.0F	7.2	35	3.6	.5	3.3	--	0	17	.0	1.9	--	.00	--	44	11	E	
1345	5050		108	15.0C	7.2	38	.18	.04	.14		.28	.00	.05	.15	--	--	18	0	0.4	T	
							.50	.11	.39		.85										
07/23/75	5050		8.6	66.2F	7.6	75	--	--	--	--	0	39	--	--	--	--	72			E	
0930	5050		101	19.0C	7.4	80	--	--	--	.00	.64				--	--				S	
09/03/75	5050		8.4	16.5F	7.4	100	12	2.7	13	--	0	69	7.7	5.4	--	.10	--	85	41	X	
0830	5050		46	8.6C	7.8	142	.60	.22	.57	.00	1.13	.16	.17		--	--	75	0	0.9		
							.43	.16	.41		.77	.11	.12								
CS 1660.10 KERN RIVER ABOVE FAIRVIEW																					
10/02/74	5050		6.3		7.6		10	2.2	12	--	0	52	8.7	5.6	--	.10	--	89	34	E	
0630	5050				7.3	127	.50	.18	.52	.00	.85	.18	.16		--	--	64	0	0.9	T	
							.42	.15	.43		.71	.15	.13								
03/05/75	5050		10.6	44.2F	7.3	85	10	1.9	13	--	0	53	8.7	5.3	--	.20	--	79	33	X	
0830	5050		98	8.6C	7.7	120	.58	.16	.57	.00	.87	.18	.15		--	--	65	0	1.0		
							.41	.13	.46		.73	.15	.13								
07/23/75	5050		8.1	61.7F	7.4	65	--	--	--	--	0	33	--	--	--	--	57			E	
0800	5050		94	16.5C	7.5	74	--	--	--	.00	.54				--	--				S	
CS 3110.10 KERN RIVER SOUTH FORK NEAR WELDON																					
10/02/74	5050		8.4		8.1		.45	9.0	54	--	2.0	256	26	20	--	.50	--	285	149		
0915	5050				8.4	513	2.25	.74	2.35	.07	4.20	.54	.56		--	--	282	0	1.9	S	
							.42	.14	.44												
03/05/75	5050		8.8	53.6F	7.5	400	.46	.11	.52	--	0	262	27	20	--	.50	--	324	159	X	
0940	5050		89	12.0C	8.3	505	2.30	.90	2.26	.00	4.29	.56	.56		--	--	285	0	1.8		
							.42	.16	.41		.79	.10	.10								
C6 1540.00 TEHACHAPI CREEK NEAR TEHACHAPI, CA																					
12/17/74	5050		32+32	12+2	41.9F	8.2	1200	166	58	145	--	0	361	434	188	1.3	.50	--	1270	653	X
1150	5050		96	5.5C	7.8	1820	8.28	4.77	7.18	.00	5.92	9.04	5.30	.02		--	1190	357	2.8		
							.41	.24	.35		.29	.45	.26								
C6 1575.00 CALIENTE CREEK ABOVE TEHACHAPI, CA																					
12/17/74	5050		1+27	11+5	47.3F	8.3	650	.47	.34	79	--	0	270	166	39	3.6	.80	--	537	259	X
1100	5050		98	8.5C	8.2	848	2.35	2.83	3.44	.00	4.43	3.46	1.10	.06		--	503	38	2.1		
							.27	.33	.40		.49	.38	.12	.1							
C6 2050.30 TEJON CREEK AT COMANCHE POINT OIL FIELD																					
12/17/74	5050		9.0	54.5F	7.9	1600	109	89	221	--	0	650	458	115	2.0	.80	--	1370	637	X	
1420	5050		83	12.5C	8.1	2020	5.39	7.34	9.61	.00	10.65	9.54	3.24	.03		--	1314	104	3.8		
							.24	.33	.43		.45	.41	.14								
90 7020.00 SAN JACUIN RIVER NEAR VERNALIS																					
10/02/74	5001		6.9	66	F	7.6	345	--	--	--	0	78	--	47	--	--	207		14AF		
1035	5050		74	19	C			--	--	--	.00	1.28	--	1.33	--	--	16+0			S	
10/16/74	5001		12.37	7.3	96	F	7.6	500	--	--	0	106	--	80	--	--	272		24AF		
1630	5050		2700	78	19	C			--	--	.00	1.74	--	2.26	--	--	18+0			S	
10/17/74	5050		12.75	7.0	64	F	7.2	400	22	12	54	--	0	163	36	69	--	274	108	X	
0800	5050		73	18	C	7.7	505	1.10	1.06	2.35	.00	1.69	.75	1.95	--	.10	--	245	24	2.3	
								.24	.24	.52		.38	.17	.44							
11/06/74	5001		14.49	8.7	57	F	7.3	330	--	--	--	0	68	--	.43	--	--	194		16AF	
1425	5050		4500	84	14	C			--	--	.00	1.11	--	1.21	--	--	14+2			S	
11/18/74	5001		13.57	8.9	59	F	7.3	440	--	--	--	0	76	--	.56	--	--	239		10AF	
1320	5050		3670	88	15	C			--	--	.00	1.25	--	1.58	--	--	14+0			S	
11/21/74	5050		13.35	8.8	55.4F	7.3	310	21	10	53	--	0	88	44	61	2.7	.20	--	248	97	X
0900	5050		83	13.0C	7.7	458	1.05	.89	2.31	.00	1.44	.92	1.72	.04		--	236	25	2.3		
							.25	.21	.54		.35	.22	.42	.1							
12/17/74	5001		14.62	10.1	54	F	7.6	375	--	--	--	0	68	--	.53	--	--	240		9AF	
1300	5050		4510	93	12	C			--	--	.00	1.11	--	1.49	--	--	12+2			S	
12/19/74	5050		12.67	8.7	50.0F	7.2	358	22	12	58	--	0	87	65	67	--	.40	--	292	108	X
0900	5050		77	10.0C	8.1	525	1.10	1.06	2.52	.00	1.43	1.35	1.84		--	--	268	37	2.4		
							.24	.23	.54		.31	.29	.40								
01/21/75	5001		12.56	9.8	50	F	7.5	645	--	--	--	0	99	--	106	--	--	376		8AF	
1600	5050		2750	87	16	C			--	--	.00	1.62	--	2.99	--	--	15+0			S	
02/03/75	5001		13.27	9.3	52	F	633	--	--	--	--	--	--	.95	--	--	376		16AF		
1450	5050		3325	96	11	C			--	--	--	--	--	2.68	--	--	11+6			S	

TABLE D-2 (Cont'd)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	00 SAT	TEMP	FIELD LABORATORY PM EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					WEN
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	8	F	705	TM	TURB	WEN
																	SUM	NCH	SAR	
.....																				
80 7020 ** SAN JOAQUIN RIVER NEAR VERNALIS CONTINUED																				
03/10/75	5001	16.38	9.7	55	7.6	408	✓	--	--	--	0	78	--	4.1	--	--	239		22AF	
1115	5050	6420	92	13	C						.00	1.28	--	1.38	--	14.0				S
04/01/75	5001	16.40	9.7	55	7.6	398	✓	--	--	--	0	76	--	50	--	--	250		25AF	
1240	5050	6440	92	13	C						.00	1.25	--	1.41	--	14.0				S
04/10/75	5001	13.22	9.4	54	7.4	633	✓	--	--	--	0	110	--	80	--	--	339		26AF	
1410	5050	3380	93	15	C						.00	1.40	--	2.26	--	17.0				S
05/01/75	5001	12.14	8.9	66	7.8	702	✓	--	--	--	0	125	--	121	--	--	472		32AF	
1335	5050	2510	95	19	C						.00	2.05	--	3.41	--	16.0				S
05/15/75	5001	13.79	9.5	64	7.8	405	✓	--	--	--	0	83	--	54	--	--	240		19AF	
1210	5050	3870	100	18	C						.00	1.36	--	1.52	--	16.0				S
06/03/75	5001	16.61	8.9	66	7.3	198	✓	--	--	--	0	44	--	23	--	--	107		10AF	
1700	5050	6670	95	19	C						.00	.72	--	.65	--	10.0				S
06/17/75	5001	17.69	8.7	66	7.6	140	✓	--	--	--	0	37	--	15	--	--	81		17AF	
1615	5050	7930	93	19	C						.00	.61	--	.42	--	10.0				S
06/25/75	5050		8.2	66	7.8	531	✓	--	--	--	0	110	--	--	--	--	38AF			S
1010	5001	2930	88	19	C						.00	1.80	--	--	--	16.2				S
07/01/75	5001		9.6	70	8.2	736	✓	--	--	--	0	145	--	120	--	--	438		32AF	
1535	5050		109	21	C						.00	2.38	--	3.38	--	16.0				S
07/15/75	5001		8.7	72	8.2	778	✓	--	--	--	0	151	--	59	--	--	414		50AF	
1510	5050		99	22	C						.00	2.47	--	1.66	--	17.0				S
07/23/75	5050		7.4	77	7.4	865	✓	--	--	--	0	132	--	--	--	--	54AF			S
1035	5001		89	25	C						.00	2.16	--	--	--	18.6				S
08/12/75	5001		9.4	78.8F	7.2	733	✓	--	--	--	--	--	--	106	--	--	396		48AF	
1615	5050		115	26.0C										2.99	--	18.0				S
08/26/75	5001	11.14	7.3	77	7.7	685	✓	--	--	--	--	--	--	134	--	--	420		31AF	
1200	5050	1790	88	25	C									2.93	--	21.0				S
09/11/75	5001	12.16	7.9	72	7.8	471	✓	--	--	--	0	82	--	71	--	--	255		19AF	
1410	5050	2530	90	22	C						.00	1.34	--	2.00	--	16.0				S
09/25/75	5001	12.81	7.4	73	7.8	379	✓	--	--	--	0	75	--	49	--	--	218		19AF	
1330	5050	3850	86	23	C						.00	1.23	--	1.38	--	14.0				S

TABLE D-3
MINOR ELEMENT ANALYSES OF SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

D	Dissolved Concentration
T	Total Concentration

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-3
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH CFS	TEMP °F	ARSENIC	BARIUM MG/L	CHROM (ALL)	CHROM (MER)	COPPER PPM	LEAD PPM	MERCURY PPM	SILVER PPM	REMARKS
SALT SLough NR STEVENS													
08/20/75	5:50		23 C										
1100	5:50	1100	7.3		0.01	T	0.00	T	0.02	T	0.01	T	0.03
CANAL CREEK AT ORANGE ROAD													
04/16/75	5:50	150	12.0C										
1630	5:50	50	7.0		0.00	T	0.01	T	--	0.00	T	0.0000	T
SAN JOAQUIN RIVER NEAR VERNALIS													
12/19/74	5:50		10.0C										
0900	5:50	358	7.2		--	--	0.00	0	0.01	0	--	0.0000	T
01/21/75	5:01		10 C										
1600	5:50	3	6.5		0.00	T	0.00	T	0.01	T	0.00	T	0.01
01/21/75	5:01		10 C										
1601	5:50	3	6.5		0.00	0	0.00	0	0.00	0	0.00	0	0.01
05/01/75	5:01		19 C										
1335	5:50	3	7.02		0.00	0	0.00	0	0.02	0	0.00	0	0.05
05/01/75	5:01		19 C										
1336	5:50	3	7.02		0.00	T	0.00	T	0.04	T	0.00	T	0.05
09/11/75	5:01		22 C										
1410	5:50	3	4.71		0.00	0	0.00	0	0.03	0	0.00	0	0.00
09/11/75	5:01		22 C										
1411	5:50	3	4.71		0.00	T	0.00	T	0.01	T	0.00	T	0.01
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE													
12/19/74	5:50		10.0C										
1240	5:50	1450	7.6		--	--	0.01	T	1.0	T	--	0.0000	T
05/21/75	5:50		20.0C										
1315	5:50	900	8.4		0.00	T	0.00	T	0.01	T	0.00	T	0.01
08/20/75	5:50		24 C										
1130	5:50	1000	7.4		0.00	T	0.00	T	0.02	T	0.01	T	0.04
SAN JOAQUIN RIVER AT FRIANT DAM													
12/10/74	5:50		9.0C										
1400	5:50	40	6.8		--	--	0.00	T	0.00	T	--	--	--
STANISLAUS RIVER BELOW TULLOCK DAM													
12/20/74	5:50		10.5C										
0930	5:50	45	7.4		--	--	0.00	T	0.01	T	--	0.0000	T
MERCED RIVER BELOW EXCHEQUER DAM													
12/20/74	5:50		12.5C										
1330	5:50	35	6.8		--	--	0.00	T	0.02	T	--	0.0000	T
MERCED CREEK AT MERCED MARIPOSA COUNTY LINE													
04/16/75	5:50		12.0C										
0915	5:50	205	8.0		0.00	T	0.00	T	--	0.00	T	0.0000	T
MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR													
04/16/75	5:50		12.0C										
1200	5:50	135	8.2		0.00	T	0.01	T	--	0.00	T	0.0000	T
SAN JOAQUIN RIVER BELOW MERCKHOFF NEAR PRATHER													
12/10/74	5:50		9.0C										
1100	5:50	25	7.1		--	--	--	--	--	--	--	--	0.01
KAWAIAH RIVER BELOW TERMINUS DAM													
12/16/74	5:50		11.0C										
1120	5:50	120	7.0		--	--	0.00	T	0.00	T	--	0.0000	T
TULE RIVER BELOW SUCCESS DAM													
12/16/74	5:50		15.0C										
1400	5:50	345	7.8		--	--	0.00	T	0.00	T	--	0.0000	T
KERN RIVER NR BAKERSFIELD													
12/17/74	5:50		9.0C										
1010	5:50	105	8.3		--	--	0.00	T	0.00	T	--	0.0000	T
KINGS RIVER BELOW PINE FLAT RESERVOIR													
12/10/74	5:50		11.0C										
0850	5:50	25	7.2		--	--	0.00	T	1.00	T	--	0.0000	T

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

BOD	Biochemical Oxygen Demand (B = 5 days at 20° C)
COD	Chemical Oxygen Demand
SUS S	Suspended Solids 5 = 105° C 8 = 180° C
V SUS S	Volatile Suspended Solids
TOC	Total Organic Carbon
TURB	Turbidity in Turbidity Units

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-4
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	SET 5 O+O COLOR	ML/L MO/L	800 SUS 5	COO V SUS 5	CYANIDE PHENOLS	TOC DOC	1001OE T OOR	BROMIDE SULFITE	T O SULF	CC EXT CA EXT
BN 0109.30 WESTLEY WASTEWAY																	
06/25/75	5050	14	C 10.5		--	--	--	--	--	552	8	62	--	--	--	--	--
0945	5001																
06/25/75	5050	18	C 10.5	8.0	--	--	--	--	--	4.8	8	37	--	--	--	--	--
0945	5050	458															
07/23/75	5050	21	C 11.3	8.5	--	1	--	--	--	8.6	8	34	--	--	--	--	--
0620	5050	668															
BN 0349.10 NEWMAN WASTEWAY																	
06/24/75	5050	19	C 5.4	7.9	--	3	--	--	--	9.1	8	31	--	--	--	--	--
1030	5050	1070															
06/24/75	5050	19	C 5.4	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--
1030	5001	1070								88	8	18	--	--	--	--	--
07/22/75	5050	23	C 2.4	7.3	--	3	--	--	--	6.7	R	31	--	--	--	--	--
0730	5050	1060															
09/30/75	5050	20	C 1.3	7.6	--	3	--	--	--	6.4	R	26	--	--	--	--	--
1005	5050	1290															
BN 0470.00 SALT SLOUGH NR STEVENSON																	
04/03/75	5050	17.0C	8.3	7.7	--	--	--	--	--	76	5	7	--	--	--	--	--
0900	5050	1550															
05/21/75	5050	17.0C		7.4	--	--	--	--	--	144	5	48	--	--	--	--	--
1230	5050	1300															
06/24/75	5050	26	C 8.4	8.1	--	3	--	--	--	6.2	R	35	--	--	--	--	--
0945	5050	993	21.44														
06/24/75	5050	20	C 6.4	8.1	--	--	--	--	--	120	R	21	--	--	--	--	--
0945	5001	993															
07/22/75	5050	28	C 5.6	7.8	--	3	--	--	--	6.4	R	35	--	--	--	--	--
0950	5050	867															
08/20/75	5050	23	C	7.3	--	--	--	--	--	6.7	R	74	--	28	--	--	--
1100	5050	1100								154	5	--	--	--	--	--	--
08/27/75	5050	22.0C	8.9	7.4	--	--	--	--	--	181	5	--	--	--	--	--	--
1100	5050	1175	22.55														
09/30/75	5050	26	C 8.6	8.0	--	3	3	--	--	3.2	R	30	--	--	--	--	--
1000	5050	956	21.63														
09/30/75	5050	26.0C	8.6	8.0	--	3	--	--	--	125	5	24	--	--	--	--	--
1001	5001	956	21.63														
BN 0770.00 DELTA MENOMOTA CANAL TO MENOMOTA POOL																	
04/08/75	5050	13.0C	10.3	7.5	--	--	--	--	--	44	5	5	--	--	--	--	--
1030	5050	310	15.20														
09/11/75	5050	23.0C	7.4	7.6	--	--	--	--	--	192	5	--	--	--	--	--	--
1100	5050	390	15.50														
BN 0936.30 BURKHARD DRAIN																	
06/25/75	5050	--	--	--	--	--	--	--	--	337	R	35	--	--	--	--	--
5001																	
06/25/75	5050	17	C 8.4	8.0	--	3	--	--	--	5.1	R	31	--	--	--	--	--
0950	5050	1120															
07/23/75	5050	29	C 7.9	8.2	--	3	--	--	--	14	8	19	--	--	--	--	--
0930	5050	1825															
BN 0955.30 TILE DRAIN NEAR PATTERSON																	
07/22/75	5050	20	C 1.7	7.3	--	1	--	--	--	0.1	8	8	--	--	--	--	--
1255	5050	2923															
BN 3115.00 STANISLAUS RIVER AT KOETITZ RANCH																	
05/28/75	5050	17.0C	9.5	7.3	--	--	--	--	--	20	5	--	--	--	--	--	--
1600	5050	35	36.79														
08/25/75	5050	19	C 7.5	--	--	--	--	--	--	1.7	R	--	--	--	--	--	--
1205	5001									17	8	17	--	--	--	--	--
07/23/75	5050	24	8.1	7.5	--	3	--	--	--	1.4	R	--	--	--	--	--	--
1110	5050	197															
08/27/75	5050	23.0C	8.0	7.5	--	--	--	--	--	38	5	--	--	--	--	--	--
1500	5050	160	28.62														
BN 3185.00 STANISLAUS RIVER AT KNIGHTS FERRY																	
08/18/75	5050	17.0C	9.9	8.1	--	--	--	--	--	1.1	R	3	--	--	--	--	--
1600	5050	28															
09/17/75	5050	23.0C	8.6	7.8	--	--	--	--	--	1.6	8	2	--	--	--	--	--
1700	5050	65															
BN 4105.00 TUOLUMNE RIVER AT TUOLUMNE CITY																	
05/28/75	5050	24.0C	7.5	7.3	--	--	--	--	--	42	5	--	--	--	--	--	--
1400	5050	400	24.10														
06/25/75	5050	20	C 9.1	--	--	--	--	--	--	3.4	R	--	--	--	--	--	--
1125	5001									25	8	12	--	--	--	--	--
07/23/75	5050	24	C 7.1	7.5	--	1	--	--	--	2.0	R	--	--	--	--	--	--
1005	5050	563															
08/27/75	5050	24.0C	8.2	7.6	--	--	--	--	--	52	5	--	--	--	--	--	--
1330	5050	600	23.45														

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T-L CHLOR	SET 5 ML/L COLOR	800 SUS 5	COO V SUS 5	CYANIDE PHENOLS	TDC DOC	100IDE T DOOR	ARROWIDE SULFITE	T SULF O SULF	CC EXT CA EXT
B0 4175.00 TUOLUMNE RIVER AT LA ORANGE BRIDGE																
06/04/75 1300	5050 5050				--	--	--	--	1.4 B	2	--	--	--	--	--	--
09/24/75 1400	5050 5050	17.3C 32	10.5	6.8	--	--	--	--	1.0 B	2	--	--	--	--	--	--
B0 4921.30 TURLOCK SEWAGE TREATMENT PLANT																
06/24/75 1255	5050 5001	685			--	--	--	--	61.0 B 91 B	100 54	--	--	--	--	--	--
07/22/75 1145	5050 5050	24 C 621	5.8	8.1	--	1	--	--	71 B	135	--	--	--	--	--	--
09/30/75 1345	5050 5050	23 C 740	11.6	8.8	--	1	--	--	55 B	225	--	--	--	--	--	--
B0 4942.30 MODOESTO SEWAGE TREATMENT PLANT																
06/24/75 1405	5050 5001	22 C 601	3.0		--	--	--	--	39.0 B 82 B	190 68	--	--	--	--	--	--
07/22/75 1300	5050 5050	28 C 1530	9.9	9.2	--	3	--	--	48 B	135	--	--	--	--	--	--
B0 4974.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 2																
06/25/75 1035	5050 5050	17 C 230	12.9	7.8	--	3	--	--	2.2 B	4	--	--	--	--	--	--
06/25/75 1035	5050 5001	17 C 369	12.9		--	--	--	--	71 B	13	--	--	--	--	--	--
07/23/75 0940	5050 5050	23 C 230	8.8	8.0	--	3	--	--	1.4 B	1	--	--	--	--	--	--
B0 4975.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 5																
06/24/75 1500	5050 5001	19 C 369	9.7		--	--	--	--	38 B	18	--	--	--	--	--	--
06/24/75 1500	5050 5050	19 C 369	9.7		--	2	--	--	6.2 B	9	--	--	--	--	--	--
07/22/75 1405	5050 5050	24 C 432	8.2	7.7	--	2	--	--	5.7 B	23	--	--	--	--	--	--
09/30/75 1545	5050 5050	21 C 522	7.3	8.0	--	2	--	--	8.1 B	34	--	--	--	--	--	--
B0 4976.30 TURLOCK IRRIGATION DISTRICT LATERAL DRAIN NO 6 AND 7																
06/24/75 1155	5050 5050	19.5C 317	7.5	7.8	--	1	--	--	4.0 B	21	--	--	--	--	--	--
06/24/75 1155	5050 5001	19.5C 317	7.5	7.8	--	--	--	--	7 B	5	--	--	--	--	--	--
07/22/75 1100	5050 5050	24 C 375	6.8	7.5	--	1	--	--	2.7 B	12	--	--	--	--	--	--
09/30/75 1250	5050 5050	21 C 401	7.9	7.8	--	1	--	--	3.1 B	16	--	--	--	--	--	--
B0 5131.00 MERCED RIVER AT MILLIKEN BRIDGE																
05/22/75 1200	5050 5050	21.0C 70	8.1	8.1	--	--	--	--	17 5	--	--	--	--	--	--	--
06/24/75 0900	5050 5001	18 C 78	8.1	6.9	--	--	--	--	1.4 B	--	--	--	--	--	--	--
07/22/75 0910	5050 5050	29 C 150	7.2	7.2	--	3	--	--	0.8 B	--	--	--	--	--	--	--
08/27/75 1200	5050 5050	23.0C 115	8.1	7.2	--	--	--	--	22 5	--	--	--	--	--	--	--
09/30/75 0915	5050 5050	17 C 50	8.6	7.2	--	3	--	--	1.1 B	--	--	--	--	--	--	--
09/30/75 0916	5050 5001	17.0C 50	8.6	7.2	--	3	--	--	15 5	10	--	--	--	--	--	--
B0 5166.50 CANAL CREEK AT DAKOTA ROAD																
02/05/75 1730	5050 5050	16.5C 45	10.2	7.3	--	15 E	--	--	15 B 83 5	29	--	--	--	--	--	--
03/12/75 1530	5050 5050	15.2C 55	10.3	7.2	--	25.0	--	--	6.2 B 46 5	10	--	--	--	--	--	--
04/16/75 1630	5050 5050	17.8C 50	10.8	7.9	--	150	--	--	1.0 B 25 5	6	--	--	--	--	--	--
B0 6369.50 OUTCHMAN CREEK AT BARTER ROAD																
02/05/75 0850	5050 5050	9 C 90	8.5	7.2	--	--	--	--	4.4 B 52 5	16	--	--	--	--	--	--
03/12/75 0720	5050 5050	54.0F 50	6.1	7.9	--	2.0	--	--	3.2 B 7 5	2	--	--	--	--	--	--
04/16/75 0755	5050 5050	12.0C 212	9.0	8.3	--	--	--	--	2.4 B 14 5	4	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO D.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T+L CHLOR	SET 5		COD SUS S	COO V SUS S	CYANIDE PHEVOLS	TOC DOC	100IDE T DOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
								O+O ML/L	O+O MG/L								
80 6399.90 DEADMAN CREEK AT BAXTER ROAD																	
02/05/75	5050	9	C	10.1	7.2	--	--	--	--	4.4 B	--	--	--	--	--	--	--
0705	5050	70	4.50	--	--	--	--	--	53 S	11	--	--	--	--	--	--	--
03/12/75	5050	11.6C	9.1	7.5	--	11.8	--	--	--	2.0 B	--	--	--	--	--	--	--
0800	5050	126	--	--	--	--	--	--	4 S	2	--	--	--	--	--	--	--
04/16/75	5050	12.5C	9.5	7.9	--	--	--	--	--	2.6 B	--	--	--	--	--	--	--
0815	5050	172	3.08	--	--	--	--	--	6 S	4	--	--	--	--	--	--	--
80 7020.00 SAN JOAQUIN RIVER NEAR VEHNALIS																	
80 7040.00 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																	
05/28/75	5050	24.0C	9.0	7.9	--	--	--	--	--	--	--	--	--	--	--	--	--
1330	5050	500	17.53	--	--	--	--	--	209 S	5	--	--	--	--	--	--	--
06/25/75	5050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0850	5001	--	--	--	--	--	--	--	90 B	18	--	--	--	--	--	--	--
06/25/75	5050	1R	C	7.3	7.9	--	3	--	--	14 F	--	--	--	--	--	--	--
0850	5050	586	16.30	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/23/75	5050	25	C	6.1	7.9	--	3	--	--	12 F	--	--	--	--	--	--	--
0825	5050	931	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	24.0C	7.1	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--
1400	5050	800	15.01	--	--	--	--	--	198 S	5	--	--	--	--	--	--	--
80 7080.00 SAN JOAQUIN RIVER NEAR GRAYSON																	
04/03/75	5050	13.0C	9.4	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--
1240	5050	--	--	--	--	--	--	--	52 S	7	--	--	--	--	--	--	--
06/25/75	5050	1R	C	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
0845	5001	--	--	--	--	--	--	--	143 B	21	--	--	--	--	--	--	--
06/25/75	5050	1R	C	8.0	7.9	--	3	--	--	15 F	--	--	--	--	--	--	--
0845	5050	526	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/23/75	5050	24	C	6.8	7.7	--	3	--	--	15 F	--	--	--	--	--	--	--
0905	5050	482	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/27/75	5050	24.0C	6.7	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1300	5050	800	--	--	--	--	--	--	151 S	5	--	--	--	--	--	--	--
80 7200.00 SAN JOAQUIN RIVER AT PATTERSON BRIDGE																	
06/24/75	5050	20	C	8.6	7.9	--	--	--	--	--	--	--	--	--	--	--	--
1230	5001	494	--	--	--	--	--	--	73 B	13	--	--	--	--	--	--	--
06/24/75	5050	20	C	8.6	7.9	--	3	--	--	9.6 F	--	--	--	--	--	--	--
1230	5050	494	34.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/22/75	5050	2R	C	8.9	6.1	--	3	--	--	13 F	--	--	--	--	--	--	--
1220	5050	756	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	1R	C	8.1	7.8	--	3	--	--	2.8 B	--	--	--	--	--	--	--
1315	5050	386	55.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	1R	C	8.1	7.8	--	3	--	--	7.6 F	--	--	--	--	--	--	--
1314	5050	386	55.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	1R	C	8.1	7.8	--	3	--	--	8.6 F	--	--	--	--	--	--	--
1317	5050	386	55.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	1R	C	8.1	7.8	--	3	--	--	--	--	--	--	--	--	--	--
1314	5001	386	55.63	--	--	--	--	--	49 S	15	--	--	--	--	--	--	--
80 7250.00 SAN JOAQUIN RIVER AT CROW5 LANOING BRIDGE																	
06/24/75	5050	20	C	8.1	7.9	--	--	--	--	54 B	15	--	--	--	--	--	--
1140	5001	464	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	20	C	8.1	7.9	--	3	--	--	9.1 F	--	--	--	--	--	--	--
1140	5050	464	41.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20	C	8.0	7.7	--	3	--	--	2.5 B	--	--	--	--	--	--	--
1230	5050	342	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20	C	8.0	7.7	--	3	--	--	7.9 F	--	--	--	--	--	--	--
1231	5050	342	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20	C	8.0	7.7	--	3	--	--	7.7 F	--	--	--	--	--	--	--
1232	5050	342	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	20.0C	8.0	7.7	--	3	--	--	--	--	--	--	--	--	--	--	--
1233	5001	342	--	--	--	--	--	--	42 S	13	--	--	--	--	--	--	--
80 7375.00 SAN JOAQUIN RIVER AT FREMONT FORO BRIDGE																	
04/03/75	5050	13.0C	8.8	7.5	--	--	--	--	--	--	--	--	--	--	--	--	--
0830	5050	1002	57.87	--	--	--	--	--	63 S	12	--	--	--	--	--	--	--
05/21/75	5050	20.0C	8.0	--	--	--	--	--	--	20	--	--	--	--	--	--	--
1315	5050	900	--	--	--	--	--	--	74 S	5	--	--	--	--	--	--	--
05/28/75	5050	23.0C	10.3	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--
1100	5050	1000	56.26	--	--	--	--	--	95 S	5	--	--	--	--	--	--	--
06/24/75	5050	21	C	7.8	8.0	--	2	--	--	18 F	--	--	--	--	--	--	--
1035	5050	1145	55.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/24/75	5050	21	C	7.6	8.0	--	--	--	--	--	--	--	--	--	--	--	--
1035	5001	1145	--	--	--	--	--	--	105 B	19	--	--	--	--	--	--	--
07/22/75	5050	2R	C	7.3	7.9	--	2	--	--	14 F	--	--	--	--	--	--	--
1035	5050	813	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24	C	7.4	--	--	--	--	--	7.0 B	41	--	24	--	--	--	--
1130	5050	1000	--	--	--	--	--	--	152 S	8	--	--	--	--	--	--	--
08/27/75	5050	23.0C	7.4	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1000	5050	900	57.11	--	--	--	--	--	126 S	5	--	--	--	--	--	--	--

MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

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TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O ₂ M	F-PH L-PH	SET 5					RDO SUS S	COO V SUS S	CYANIDE PHENOLS	TOC DOC	IOIOE Y OOR	BROMIDE SULFITE	Y SULF D SULF	CC EXT CA EXT
					DISCM MBAS	DEPTH TURB	T+L CHLOR	O+O COLOR	ML/L MB/L								
B4 1680.00					TUOLUMNE RIVER ABOVE EARLY INTAKE												
09/04/75 0900	5050 5050	9.8C 10	10.6	6.8	--	--	--	--	--	0.7 B --	3 --	--	--	--	--	--	--
09/24/75 0930	5050 5050	13.8C 9	9.6	6.8	--	--	--	--	--	0.5 B --	2 --	--	--	--	--	--	--
B4 1850.10					TUOLUMNE RIVER AT TUOLUMNE MEADOWS												
08/04/75 0830	5050 5050	P.1C A	9.5	6.8	--	--	--	--	--	0.7 B --	2 --	--	--	--	--	--	--
09/24/75 0700	5050 5050	A.3C 18	7.9	7.0	--	--	--	--	--	0.8 B --	1 --	--	--	--	--	--	--
B5 1320.00					MERCED RIVER AT BAGBY												
11/13/74 1530	5050 5050	21.5C 63	11.2	7.1	--	--	--	--	--	0.8 B 1 5	-- 1	--	--	--	--	--	--
B5 1410.10					MERCED RIVER ABOVE BRICEBURG												
11/13/74 1330	5050 5050	10.0C 40	12.0	7.3	--	--	--	--	--	0.8 B 1 5	-- 1	--	--	--	--	--	--
B5 1517.10					MERCED RIVER BELOW EL PORTAL												
11/13/74 1130	5050 5050	8.6C 37	11.1	7.2	--	--	--	--	--	1.1 B 2 5	-- 2	--	--	--	--	--	--
B5 1519.50					MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140												
11/13/74 0930	5050 5050	7.2C 30	8.1	6.8	--	--	--	--	--	0.4 B 4 5	-- 2	--	--	--	--	--	--
B5 1700.00					MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE												
11/13/74 0715	5050 5050	4.8C 23 1.37	11.3	7.0	--	--	--	--	--	0.6 B 3 5	-- 3	--	--	--	--	--	--
B5 5152.10					REAR CREEK ABOVE REAR CREEK RESERVOIR												
02/05/75 1445	5050 5050	9.5C 75	10.8	7.5	300 E	--	--	--	--	1.2 B 15 5	-- 6	--	--	--	--	--	--
03/12/75 1100	5050 5050	11.5C 132	10.6	8.0	65+1	--	--	--	--	1.0 B 1 5	-- 0	--	--	--	--	--	--
04/16/75 1430	5050 5050	16.5C 145	9.5	7.9	15	--	--	--	--	1.1 B 9 5	-- 4	--	--	--	--	--	--
B5 6152.50					BURNS CREEK AT MERCED MARIPOSA COUNTY LINE												
02/05/75 1625	5050 5050	11.5C 105	10.2	7.5	50 E	--	--	--	--	1.3 B 15 5	-- 6	--	--	--	--	--	--
03/12/75 0930	5050 5050	10.7C 150	10.5	7.4	35+1	--	--	--	--	1.2 B 3 5	-- 2	--	--	--	--	--	--
04/16/75 0915	5050 5050	12.0C 205	10.3	8.0	8+0	--	--	--	--	1.8 B 9 5	-- 4	--	--	--	--	--	--
B6 2020.10					OWENS CREEK ABOVE OWENS RESERVOIR												
02/05/75 1250	5050 5050	10.0C 115	10.8	7.8	75 E	--	--	--	--	2.2 B 23 5	-- 8	--	--	--	--	--	--
03/12/75 0920	5050 5050	11 C 210	11.0	8.2	12+2	--	--	--	--	1.4 B 6 5	-- 2	--	--	--	--	--	--
04/16/75 1245	5050 5050	14.0C 249	8.4	11.3	--	--	--	--	--	2.1 B 13 5	-- 6	--	--	--	--	--	--
B6 2204.10					MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR												
02/05/75 1040	5050 5050	A.5C 60	11.1	7.4	200 E	--	--	--	--	1.4 B 27 5	-- 7	--	--	--	--	--	--
03/12/75 1100	5050 5050	17.2C 121	11.3	8.2	121	--	--	--	--	1.2 B 2 5	-- 1	--	--	--	--	--	--
04/16/75 1200	5050 5050	17.0C 135	10.9	8.2	--	--	--	--	--	1.3 B 23 5	-- 6	--	--	--	--	--	--
B7 1340.00					SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUHERRY												
10/06/74 0830	5050 5050	9.7C 22	8.6	6.8	--	--	--	--	--	0.7 B 3 5	-- 3	--	--	--	--	--	--
07/09/75 0930	5050 5050	--	--	6.8	--	--	--	--	--	0.9 B --	4 --	--	--	--	--	--	--
B7 1532.50					SAN JOAQUIN RIVER BELOW SHAKEFLAT CREEK												
10/06/74 1245	5050 5050	14.5C 50	9.7	7.3	--	--	--	--	--	0.7 B 0 5	-- 0	--	--	--	--	--	--
07/09/75 1230	5050 5050	13.0C 15	10.2	8.1	--	--	--	--	--	1.2 B --	3 --	--	--	--	--	--	--
B7 4250.50					SAN JOAQUIN RIVER SOUTH FORK AT MONO HOT SPRINGS												
10/09/74 1200	5050 5050	A.5C 20	9.4	6.9	--	--	--	--	--	0.6 B 0 5	-- 0	--	--	--	--	--	--
07/08/75 0930	5050 5050	17.0C 25	7.4	6.8	--	--	--	--	--	0.8 B --	1 --	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O.M.	P-H L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	0-6 COLOR	SET 5 ML/L	BOO SUS 5	CDD V SUS 5	CYANIDE PHENOLS	TOC ODC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
C0 2550.30 KAWAHE RIVER AT LEHONCOVE																	
10/16/74	5050	21.1C	9.8	7.5	--	--	--	--	1.1 R	--	--	--	--	--	--	--	--
1430	5050	120			--	--	--	--	8 5	5	--	--	--	--	--	--	--
04/23/75	5050	57.0F	11.2		--	--	--	--	1.4 R	3	--	--	--	--	--	--	--
1400	5050	112			--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	23.5C	8.6	7.1	--	--	--	--	0.6 R	1	--	--	--	--	--	--	--
1400	5050	50			--	--	--	--	--	--	--	--	--	--	--	--	--
C0 3195.00 TULE RIVER AT WORTH BRIDGE NEAR PORTERVILLE																	
10/30/74	5050	18.0C	7.8	7.7	--	--	--	--	2.0 C	--	--	--	--	--	--	--	--
1500	5050	232			--	--	--	--	30 5	7	--	--	--	--	--	--	--
04/09/75	5050	13.5C	11.8	7.8	--	--	--	--	2.2 R	5	--	--	--	--	--	--	--
1320	5050	180			--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24.1C	8.0	7.0	--	--	--	--	2.5 R	5	--	--	--	--	--	--	--
1430	5050	145			--	--	--	--	--	--	--	--	--	--	--	--	--
C0 5180.10 KERN RIVER AT HART PARK																	
10/02/74	5050	9.6	7.7		--	--	--	--	0.6 R	--	--	--	--	--	--	--	--
1300	5050				--	--	--	--	5 5	4	--	--	--	--	--	--	--
07/23/75	5050	23.0C	8.3	7.4	--	--	--	--	0.8 R	3	--	--	--	--	--	--	--
1400	5050	97			--	--	--	--	--	--	--	--	--	--	--	--	--
C0 5180.10 KERN RIVER AT RANCHERIA BRIDGE																	
10/02/74	5050	9.3	7.7		--	--	--	--	0.9 R	--	--	--	--	--	--	--	--
1200	5050				--	--	--	--	3 5	3	--	--	--	--	--	--	--
07/23/75	5050	23.0C	8.2	7.5	--	--	--	--	1.2 R	2	--	--	--	--	--	--	--
1330	5050	93			--	--	--	--	--	--	--	--	--	--	--	--	--
C1 1115.50 KINGS RIVER NEAR PIEDRA																	
10/23/74	5050	16.5C	10.2	7.2	--	--	--	--	0.8 R	--	--	--	--	--	--	--	--
1545	5050	25			--	--	--	--	4 5	4	--	--	--	--	--	--	--
05/07/75	5050	11.0C	11.9	8.4	--	--	--	--	0.8 R	2	--	--	--	--	--	--	--
1100	5050	30			--	--	--	--	--	--	--	--	--	--	--	--	--
C1 1320.00 RIO CREEK ABOVE PINE FLAT RESERVOIR																	
10/23/74	5050	19.0C	10.1	7.9	--	--	--	--	0.8 R	--	--	--	--	--	--	--	--
1330	5050	130	1.3R		--	--	--	--	4 5	3	--	--	--	--	--	--	--
05/07/75	5050	13.0C	10.3	7.4	--	--	--	--	0.9 R	2	--	--	--	--	--	--	--
1230	5050	50	2.86		--	--	--	--	--	--	--	--	--	--	--	--	--
C1 1460.00 KINGS RIVER BELOW NORTH FORK																	
10/23/74	5050	15.0C	10.6	7.3	--	--	--	--	0.2 R	--	--	--	--	--	--	--	--
1215	5050	45			--	--	--	--	1 5	1	--	--	--	--	--	--	--
05/07/75	5050	17.8C	10.9	7.2	--	--	--	--	0.9 R	2	--	--	--	--	--	--	--
1340	5050	30	5.26		--	--	--	--	--	--	--	--	--	--	--	--	--
C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																	
10/23/74	5050	7.1C	10.1	7.3	--	--	--	--	0.1 R	--	--	--	--	--	--	--	--
0830	5050	34			--	--	--	--	0 5	0	--	--	--	--	--	--	--
05/07/75	5050	5.0C	11.4	7.6	700	--	--	--	0.5 R	2	--	--	--	--	--	--	--
0730	5050	22			--	--	--	--	--	--	--	--	--	--	--	--	--
C2 1210.30 KAWAHE RIVER ABOVE LAKE KAWAHE																	
10/16/74	5050	20.0C	9.6	7.6	--	--	--	--	0.4 R	--	--	--	--	--	--	--	--
1245	5050	125			--	--	--	--	5 5	3	--	--	--	--	--	--	--
04/23/75	5050	57.0F	10.4	7.5	--	--	--	--	1.1 R	2	--	--	--	--	--	--	--
1300	5050				--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	25.5C	8.0	7.0	--	--	--	--	0.5 R	1	--	--	--	--	--	--	--
1300	5050	80			--	--	--	--	--	--	--	--	--	--	--	--	--
C2 2010.30 KAWAHE RIVER NORTH FORK NEAR MOUTH																	
10/16/74	5050	15.7C	9.6	7.6	--	--	--	--	0.5 R	--	--	--	--	--	--	--	--
0950	5050	158			--	--	--	--	9 5	4	--	--	--	--	--	--	--
04/23/75	5050	53.0F	10.8	7.4	--	--	--	--	0.9 R	2	--	--	--	--	--	--	--
1015	5050	84			--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	24.0C	8.1	7.0	--	--	--	--	0.4 R	1	--	--	--	--	--	--	--
0930	5050	118			--	--	--	--	--	--	--	--	--	--	--	--	--
C2 3147.00 KAWAHE RIVER WF BELOW NO 2 INTAKE NR THREE RIVERS																	
10/16/74	5050	14.0C	9.2	7.6	--	--	--	--	0.5 R	--	--	--	--	--	--	--	--
0820	5050	82			--	--	--	--	4 5	4	--	--	--	--	--	--	--
04/23/75	5050	47.0F	12.0	7.4	--	--	--	--	0.9 R	2	--	--	--	--	--	--	--
0900	5050	54			--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	21.5C	8.1	7.2	--	--	--	--	0.7 R	1	--	--	--	--	--	--	--
0830	5050	52			--	--	--	--	--	--	--	--	--	--	--	--	--
C2 4201.50 KAWAHE RIVER SOUTH FORK ABOVE GROUSE CREEK																	
10/16/74	5050	18.3C	9.0	7.7	--	--	--	--	0.7 R	--	--	--	--	--	--	--	--
1115	5050	140			--	--	--	--	10 5	4	--	--	--	--	--	--	--
04/23/75	5050	50.0F	11.0	7.5	--	--	--	--	0.8 R	2	--	--	--	--	--	--	--
1150	5050	98			--	--	--	--	--	--	--	--	--	--	--	--	--
08/06/75	5050	27.0C	8.2	8.0	--	--	--	--	0.4 R	1	--	--	--	--	--	--	--
1130	5050	110			--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO %	F-PH L-PH	DISCH MGAS	DEPTH TURB	T+L CHLOR	SET 5		BOD SUS S	COD V SUS S	CYANIDE PMENDLS	TOC DOC	IODIDE T DOOR	BROMIDE SULFITE	T SULF D SULF	CC EAT CA EAT
								O+B ML/L	ML/L COLOR								
C3 1920.30 TULE RIVER BELOW SPRINGVILLE																	
10/30/74	5050	17.7C	12.1	8.3	--	--	--	--	--	1.9 C	--	--	--	--	--	--	--
1140	5050	275	--	--	--	--	--	--	--	31 S	3	--	--	--	--	--	--
04/09/75	5050	10.2C	11.2	8.2	--	--	--	--	--	1.2 R	3	--	--	--	--	--	--
1100	5050	130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	24.5C	9.2	8.0	--	--	--	--	--	2.1 R	4	--	--	--	--	--	--
1200	5050	300	3.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C3 2190.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD																	
10/30/74	5050	17.0C	10.0	7.7	--	--	--	--	--	1.2 C	--	--	--	--	--	--	--
0945	5050	271	--	--	--	--	--	--	--	15 S	3	--	--	--	--	--	--
04/09/75	5050	8.5C	11.1	7.4	--	--	--	--	--	1.7 R	3	--	--	--	--	--	--
0920	5050	62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	21.0C	8.0	7.2	--	--	--	--	--	1.7 R	5	--	--	--	--	--	--
1000	5050	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILL																	
10/30/74	5050	14.2C	10.3	8.2	--	--	--	--	--	1.4 C	--	--	--	--	--	--	--
0800	5050	232	2.50	--	--	--	--	--	--	37 S	3	--	--	--	--	--	--
04/09/75	5050	4.7C	12.1	8.2	--	--	--	--	--	1.8 R	3	--	--	--	--	--	--
0800	5050	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	14.5C	8.1	8.2	--	--	--	--	--	0.8 R	3	--	--	--	--	--	--
0830	5050	215	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREW CREEK																	
10/30/74	5050	15.0C	9.6	7.7	--	--	--	--	--	2.7 C	--	--	--	--	--	--	--
1340	5050	146	--	--	--	--	--	--	--	16 S	4	--	--	--	--	--	--
04/09/75	5050	11.2C	10.8	7.6	--	--	--	--	--	1.4 R	4	--	--	--	--	--	--
1200	5050	98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/20/75	5050	27.0C	8.1	8.1	--	--	--	--	--	1.0 R	2	--	--	--	--	--	--
1300	5050	155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS																	
10/02/74	5050	8.6	7.4	--	--	--	--	--	--	1.2 R	--	--	--	--	--	--	--
1000	5050	--	--	--	--	--	--	--	--	7 S	2	--	--	--	--	--	--
07/23/75	5050	21.0C	8.2	7.5	--	--	--	--	--	1.6 R	2	--	--	--	--	--	--
1130	5050	90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C5 1500.00 KERN RIVER AT KERNVILLE																	
10/02/74	5050	9.7	7.5	--	--	--	--	--	--	1.6 R	--	--	--	--	--	--	--
0745	5050	--	--	--	--	--	--	--	--	12 S	5	--	--	--	--	--	--
07/23/75	5050	19.0C	8.6	7.6	--	--	--	--	--	0.6 R	1	--	--	--	--	--	--
0830	5050	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C5 1660.10 KERN RIVER ABOVE FAIRVIEW																	
10/02/74	5050	6.3	7.6	--	--	--	--	--	--	0.5 R	--	--	--	--	--	--	--
0630	5050	--	--	--	--	--	--	--	--	1 S	1	--	--	--	--	--	--
07/23/75	5050	14.5C	8.1	7.4	--	--	--	--	--	0.8 R	0	--	--	--	--	--	--
0800	5050	65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
C5 3110.10 KERN RIVER SOUTH FORK NEAR WELDON																	
10/02/74	5050	8.4	8.1	--	--	--	--	--	--	6.1 R	--	--	--	--	--	--	--
0915	5050	--	--	--	--	--	--	--	--	12 S	6	--	--	--	--	--	--
H0 7620.00 SAN JOAQUIN RIVER NEAR VERNALIS																	
10/02/74	5001	19 C	6.9	7.6	--	3	--	--	--	--	--	--	--	--	--	--	--
1035	5050	345	--	--	--	--	--	--	--	26 S	7	--	--	--	--	--	--
10/16/74	5001	19 C	7.3	7.6	2700	3	--	--	--	--	--	--	--	--	--	--	--
1030	5050	500	12.37	--	--	--	--	--	--	35 S	12	--	--	--	--	--	--
10/17/74	5050	64 F	7.0	7.2	--	--	--	--	--	4.2 R	5	--	--	--	--	--	--
0800	5050	400	12.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/06/74	5001	14 C	8.7	7.3	4500	3	--	--	--	--	--	--	--	--	--	--	--
1425	5050	330	14.49	--	--	--	--	--	--	28 S	4	--	--	--	--	--	--
11/18/74	5001	14 C	8.9	7.3	3670	3	--	--	--	--	--	--	--	--	--	--	--
1320	5050	440	13.57	--	--	--	--	--	--	20 S	2	--	--	--	--	--	--
11/21/74	5050	14.0C	8.8	7.3	--	--	--	--	--	2.0 R	6	--	--	--	--	--	--
0900	5050	310	13.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/17/74	5001	17 C	10.1	7.6	4510	3	--	--	--	--	--	--	--	--	--	--	--
1300	5050	375	14.62	--	--	--	--	--	--	26 S	4	--	--	--	--	--	--
12/19/74	5050	10.0C	8.7	7.2	--	--	--	--	--	2.0 R	6	--	--	--	--	--	--
0900	5050	358	12.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D-4 (Cont'd)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	P-H L-PH	OISCH MBA5	DEPTH TURB	T-L CHLOR	0+0 COLOR	SET 5 MG/L	800 SUS 5	COD SUS 5	CYANIDE PHENOLS	TOD DOC	IODIDE T DOOR	BROMIDE SULFITE	T SULF O SULF	CC EAT CA EAT
RD 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS																	
CONTINUED																	
01/21/75	5001	10 C 9.8	7.5	2750	3	--	--	--	--	32	5	12	--	--	--	--	--
1600	5050	645 12.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
02/03/75	5001	11 C 9.9	3320	3	--	--	--	--	--	40	5	5	--	--	--	--	--
1450	5050	633 13.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/18/75	5001	13 C 9.7	7.6	6420	3	--	--	--	--	48	5	5	--	--	--	--	--
1115	5050	408 13.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/01/75	5001	13 C 9.7	7.6	6440	3	--	--	--	--	57	5	7	--	--	--	--	--
1240	5050	398 16.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/18/75	5001	15 C 9.4	7.4	3380	3	--	--	--	--	38	5	5	--	--	--	--	--
1410	5050	633 13.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/01/75	5001	19 C 8.9	7.8	2510	3	--	--	--	--	56	5	12	--	--	--	--	--
1335	5050	702 12.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/15/75	5001	18 C 9.5	7.8	3870	3	--	--	--	--	61	5	8	--	--	--	--	--
1210	5050	405 13.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/03/75	5001	19 C 8.9	7.3	6670	3	--	--	--	--	47	5	5	--	--	--	--	--
1700	5050	198 16.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/17/75	5001	19 C 8.7	7.6	7430	3	--	--	--	--	58	5	7	--	--	--	--	--
1615	5050	140 17.69	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/25/75	5050	10 C 8.2	7.8	2730	3	--	--	--	--	13	F	--	--	--	--	--	--
1010	5050	531 12.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/25/75	5050	10 C 8.2	7.8	2730	3	--	--	--	--	80	5	16	--	--	--	--	--
1011	5001	531 12.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/01/75	5001	21 C 9.8	8.2	2870	3	--	--	--	--	86	5	12	--	--	--	--	--
1535	5050	736 11.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/15/75	5001	22 C 8.7	8.2	1560	3	--	--	--	--	156	5	19	--	--	--	--	--
1510	5050	778 10.98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/23/75	5001	25 C 7.4	7.4	--	3	--	--	--	--	164	5	25	--	--	--	--	--
1035	5001	865	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/12/75	5001	26.0C 9.4	7.2	1520	3	--	--	--	--	118	5	19	--	--	--	--	--
1615	5050	733 10.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/26/75	5001	25 C 7.3	7.7	1790	3	--	--	--	--	107	5	12	--	--	--	--	--
1200	5050	685 11.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/11/75	5001	22 C 7.9	7.8	2530	3	--	--	--	--	73	5	8	--	--	--	--	--
1410	5050	471 12.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/25/75	5001	23 C 7.4	7.8	3050	3	--	--	--	--	74	5	19	--	--	--	--	--
1330	5050	379 12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/30/75	5050	19 C 8.1	7.8	--	3	--	--	--	--	49	5	15	--	--	--	--	--
1314	5001	386 55.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE D-5
NUTRIENT CONSTITUENTS OF SURFACE WATER

Abbreviations, Chemical Symbols, and Codes used
in this table are:

Abbreviations

EC	Specific electrical conductance in micromhos at 25° Celsius
TURB	Turbidity in turbidity units C = Candle determination AF = Hach (field) determination
PH	Measure of acidity or alkalinity of water
D & DIS	Dissolved Concentration
T	Total Concentration
ORGN	Organic Nitrogen
NH ₃ + ORGN	Ammonia plus Organic Nitrogen as N (total Kjeldahl)
O-PO ₄	Orthophosphate as P
TOT P	Total Phosphate as P
REM	Remarks

Chemical Symbols

NO ₂	Nitrite as N
NO ₃	Nitrate as N
NH ₃	Ammonia as N
CACO ₃ T	Total Alkalinity (Bicarbonate)

Sampler (SAMP) and Laboratory (LAB) Codes

5050 Department of Water Resources

NUTRIENT ANALYSIS OF SURFACE WATER

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TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. 015CM	TEMP DEPTH	F-PH LAB	F-EC EC	FIELD		O N02 + N03 T NH3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER				O TOT P T TOT P	REM	
						TURB F-CO2	CACO3 T		O N02 O N03	O ORG N T ORG N	O NH3 + T ORG N	O15 A.M.P04			O O-P04 T O-P04
B0 6369.50 OUTCHMAN CREEK AT BAXTER ROAD															
02/05/75 0650	5050 5050	4.10	9 C	7.2	90			-- --	-- 0.58	-- --	1.8 --	-- --	-- --	-- 0.22	-- --
03/12/75 0720	5050 5050			53.0F	7.9			-- --	-- 0.08	-- --	1.4 --	-- --	-- --	-- 0.10	-- --
04/16/75 0755	5050 5050	3.77	12.0C	8.3	212			-- --	-- 0.03	-- --	0.7 --	-- --	-- --	-- 0.07	-- --
B0 6399.50 DEADMAN CREEK AT BAXTER ROAD															
02/05/75 0705	5050 5050	4.50	9 C	7.2	70			-- --	-- 0.79	-- --	1.4 --	-- --	-- --	-- 0.19	-- --
03/12/75 0800	5050 5050			11.8	11.6C	7.5	126	-- --	-- 0.21	-- --	0.8 --	-- --	-- --	-- 0.06	-- --
04/16/75 0815	5050 5050	3.08	12.5C	7.9	172			-- --	-- 0.02	-- --	0.5 --	-- --	-- --	-- 0.06	-- --
B0 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS															
10/02/74 1035	5001 5001		19 C	7.6	345	144F		-- 0.06	-- 0.64	0.00 0.40	0.0 0.46	-- --	-- 0.07	-- 0.16	-- --
10/16/74 1030	5001 5001	12.37	19 C	7.6	500	244F		-- 0.03	-- 0.84	0.67 1.13	0.7 1.16	-- --	-- 0.10	-- 0.23	-- --
11/06/74 1425	5001 5001	16.49	14 C	7.3	330	164F		-- 0.07	-- 0.66	0.53 0.67	0.6 0.74	-- --	-- 0.06	-- 0.11	-- --
11/18/74 1320	5001 5001	13.57	15 C	7.3	440	104F		-- 0.09	-- 0.52	0.71 0.85	0.8 0.94	-- --	-- 0.08	-- 0.13	-- --
12/17/74 1300	5001 5001	14.62	12 C	7.6	375	94F		-- 0.07	-- 0.47	0.23 0.31	0.3 0.38	-- --	-- 0.07	-- 0.11	-- --
12/19/74 0900	5050 5050	12.67	10.0C	7.2	358			-- --	-- 0.57	-- --	-- --	-- --	-- --	-- --	-- --
01/21/75 1600	5001 5001	12.56	10 C	7.5	645	84F		-- 0.12	-- 0.95	0.38 0.50	0.5 0.62	-- --	-- 0.09	-- 0.17	-- --
02/03/75 1450	5001 5001	13.27	11 C		633	164F		-- 0.14	-- 0.76	0.66 0.90	0.8 1.04	-- --	-- 0.08	-- 0.19	-- --
03/18/75 1115	5001 5050	16.38	13 C	7.6	408	224F	64	0.72 0.05	0.01 0.71	0.4 0.5	0.5 0.55	-- --	-- 0.09	-- 0.15	-- --
04/01/75 1240	5001 5050	16.40	13 C	7.6	398	254F	62	0.71 0.03	0.01 0.70	0.5 0.8	0.63 --	-- --	-- 0.05	-- 0.14	-- --
04/18/75 1410	5001 5050	13.22	15 C	7.4	633	264F	90	1.0 0.02	0.02 0.98	0.3 0.7	-- 0.72	-- --	-- 0.10	-- 0.18	-- --
05/01/75 1335	5001 5050	12.14	19 C	7.8	702	324F	103	1.02 0.10	0.02 1.0	0.7 0.9	-- 1.0	-- --	-- 0.13	-- 0.22	-- --
05/15/75 1210	5001 5050	13.79	18 C	7.8	405	194F	68	0.47 0.06	0.02 0.45	0.4 0.5	-- 0.5	-- --	-- 0.08	-- 0.15	-- --
06/03/75 1700	5001 5050	16.61	19 C	7.3	198	184F	36	0.94 0.06	0.00 0.94	0.4 0.5	-- 0.5	-- --	-- 0.06	-- 0.15	-- --
06/17/75 1615	5001 5050	17.69	19 C	7.6	140	174F	30	0.32 0.06	0.00 0.32	0.3 0.3	-- 0.3	-- --	-- 0.05	-- 0.10	-- --
06/25/75 1010	5050 5001		19 C	7.8	531	384F	82	-- 0.03	-- 0.78	0.37 0.83	-- 0.86	-- --	-- 0.08	-- 0.26	-- --
07/01/75 1535	5001 5050		21 C	8.2	736	324F	119	1.22 0.00	0.02 1.2	0.5 1.0	-- 1.0	-- --	-- 0.09	-- 0.27	-- --
07/15/75 1510	5001 5050	10.93	22 C	8.2	778	504F		1.11 0.00	0.01 1.1	0.2 1.2	-- 1.2	-- --	-- 0.09	-- 0.29	-- --
07/23/75 1035	5050 5001		25 C	7.4	865	544F	108	-- 0.06	-- 1.30	0.64 1.46	-- 1.52	-- --	-- 0.11	-- 0.32	-- --
08/12/75 1615	5001 5050		26.0C	7.2	733	484F		1.33 0.03	0.03 1.3	0.8 1.0	-- 1.03	-- --	-- 0.12	-- 0.12	-- --
08/26/75 1200	5001 5050	11.14	25 C	7.7	685	314F		1.22 0.01	0.02 1.2	0.6 1.0	-- 1.01	-- --	-- 0.07	-- 0.24	-- --
09/11/75 1410	5001 5050	12.16	22 C	7.8	471	194F		0.92 0.06	0.01 0.91	0.6 0.7	-- 0.7	-- --	-- 0.06	-- 0.13	-- --
09/25/75 1330	5001 5050	12.61	23 C	7.8	379	194F		0.7 0.06	0.01 0.69	0.4 0.4	-- 0.4	-- --	-- 0.06	-- 0.26	-- --
B0 7040.00 SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE															
06/25/75 0650	5050 5001							-- 0.03	-- 0.82	-- 0.64	-- 0.30	-- --	-- 0.10	-- 0.28	-- --
07/23/75 0625	5050 5001		25 C	7.9	931	744F	115	-- 0.03	-- 1.45	1.87 1.85	-- 1.88	-- --	-- 0.13	-- 0.39	-- --
B0 7080.00 SAN JOAQUIN RIVER NEAR GRAYSON															
06/25/75 0845	5050 5001		19 C			34C	92	-- 0.02	-- 0.82	-- 0.56	-- 0.50	-- --	-- 0.11	-- --	-- --
07/23/75 0905	5050 5001		24 C	7.7	982	604F	148	-- 0.10	-- 1.30	-- 1.42	-- 1.52	-- --	-- 0.14	-- 0.36	-- --
B0 7200.00 SAN JOAQUIN RIVER AT PATTERSON BRIDGE															
06/24/75 1230	5050 5001		20 C			26C	79	-- 0.04	-- 0.66	-- 0.48	-- 0.50	-- --	-- 0.09	-- 0.25	-- --
07/22/75 1220	5050 5001		28 C	8.1	756	544F	108	-- 0.02	-- 1.40	-- 1.08	-- 1.98	-- --	-- 0.13	-- 0.33	-- --

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. U15CH	TEMP DEPTH	F-PH LAB	F-EC EC	FIELD			O NO2 T NH3	O NO3 O NO3	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER				O TOI P T TOI P	O TOI P T TOI P
						TURB	CACO3	P			O ORG N	O (NH3 + T ORG N	OIS A.H.P.O4	O D-P04 T D-P04		
B0 7250.00 SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE																
06/24/75 5:50 1140 5:50			20 C			29C	464		--	--	--	--	--	--	0.08	0.21
07/22/75 5:50 1140 5:50			28 C	8.1	706	50AF		101	0.03	0.40	0.44	0.40	--	--	0.08	0.20
B0 7375.00 SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																
05/21/75 5:50 1315 5:50			20 C	8.0	900		1040		--	--	--	--	--	--	0.17	--
06/24/75 5:50 1035 5:50			21 C		1145	35C			0.03	0.75	1.54	0.90	--	--	0.08	0.38
07/22/75 5:50 1035 5:50			26 C	7.9	813	38AF		108	0.08	0.71	1.52	2.74	--	--	0.11	0.43
08/26/75 5:50 1130 5:50			24 C	7.4	1000	976			--	3.7	--	--	--	--	0.14	--
B0 7886.50 SAN JOAQUIN RIVER AT NORTH FORK ROAD BRIDGE																
10/08/74 5:50 0615 5:50			9.5C	6.8	30				--	--	--	0.2	--	--	0.00	0.05
07/09/75 5:50 0700 5:50			11.5C	6.8	30				0.05	0.00	--	--	--	--	--	0.08
B3 1406.50 STANISLAUS RIVER AT PARROTTS FERRY BRIDGE																
06/18/75 5:50 1130 5:50			13.0C	8.3	25				0.02	0.00	--	--	--	--	--	0.04
09/17/75 5:50 1230 5:50			16.4C	7.3	35				0.01	0.00	--	--	--	--	--	0.02
B3 2110.10 STANISLAUS RIVER NF AT CALAVERAS BIG TREES STATE PARK																
06/18/75 5:50 1330 5:50			12.4C	6.8	18				0.02	0.00	--	--	--	--	--	0.18
09/17/75 5:50 1400 5:50			19.4C	7.2	28				0.4	0.00	--	--	--	--	--	0.01
B3 3255.00 STANISLAUS RIVER MIDDLE FORK AT REAROSLEY																
06/18/75 5:50 0900 5:50			9.8C	8.3	25				0.04	0.00	--	--	--	--	--	0.06
09/17/75 5:50 0930 5:50			16.4C	7.2	35				0.01	0.00	--	--	--	--	--	0.13
B3 3480.10 STANISLAUS RIVER MIDDLE FORK AT DANDANELLE																
06/18/75 5:50 0630 5:50			4.9C	8.1	20				0.07	0.00	--	--	--	--	--	0.16
09/17/75 5:50 0800 5:50			14.5C	7.0	20				0.4	0.00	--	--	--	--	--	0.02
B4 1231.50 SULLIVAN CREEK AT JACKSONVILLE ROAD																
04/23/75 2163 1030 5:50			72.3		11.0C	8.3	90		0.01	0.01	--	--	--	--	0.00	0.02
B4 1232.50 WOODS CREEK AT SLATE CREEK																
04/23/75 2163 1000 5:50			15.4		13.0C	8.4	220		0.47	0.02	--	--	--	--	0.26	0.28
B4 1235.50 WOODS CREEK BELOW JAMESTOWN STP																
04/23/75 2163 0830 5:50			12.0		11.3C	8.2	220		0.69	0.04	--	--	--	--	0.31	0.35
B4 1238.50 WOODS CREEK BELOW SONORA STR																
04/23/75 2163 0800 5:50			6.9		11.0C	8.1	247		0.51	0.07	--	--	--	--	0.65	0.65
B4 1239.50 WOODS CREEK AT COUNTY FAIRGROUNDS																
04/23/75 2163 0730 5:50			3.7		11.0C	8.2	260		0.29	0.00	--	--	--	--	0.00	0.02
B4 1241.50 WOODS CREEK AT JACK PAGE ROAD ABOVE SONORA																
04/23/75 2163 0615 5:50			3.2		10.9C	8.0	212		0.1	0.00	--	--	--	--	0.00	0.01
B4 1290.10 TUOLUMNE RIVER AT MAROS FERRY BRIDGE																
06/04/75 5:50 1100 5:50			11.7C	6.8	12				0.01	0.00	--	--	--	--	--	0.04
09/24/75 5:50 1230 5:50			27.4C	7.4	50				0.02	0.00	--	--	--	--	--	0.02
B4 1686.00 TUOLUMNE RIVER ABOVE EARLY INTAKE																
06/04/75 5:50 0900 5:50			9.8C	6.8	10				0.02	0.00	--	--	--	--	--	0.02
09/24/75 5:50 0930 5:50			13.8C	6.8	9				0.08	0.00	--	--	--	--	--	0.00
B4 1850.10 TUOLUMNE RIVER AT TUOLUMNE MEADOWS																
06/04/75 5:50 0430 5:50			2.1C	6.8	4				0.03	0.00	--	--	--	--	--	0.00
09/24/75 5:50 0700 5:50			8.1C	7.0	18				0.06	0.00	--	--	--	--	--	0.00

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	F-PM LAB	F-EC EC	TURB F-CO2	FIELD			NUTRIENT				CONSTITUENTS IN MILLIGRAMS PER LITER				D TOT T TOT	P REM		
							CAC03 CAC03	T	D NO2 + NO3 T NH3	D NO2 O NO3	D ORG N T ORG N	D INH3 + T ORG N1	OIS A.M.P04	D O-PO4 T O-PO4							
B5 R 735.7 016.2 1 LAKE MCCLURE NEAR MCCLURE POINT																					
07/10/75	5050			8.3		50			--	--	--	--	--	--	0.00	--	0.01				
09/03/75	5050			6.6		47			--	0.01	--	--	--	--	0.01	--	0.01				
1425	5050								--		--	--	--	--	--	--					
B5 R 736.2 006.1 1 LAKE MCCLURE AT INLET (HEAD)																					
07/10/75	5050		18.4C	7.4		18			--	0.01	0.01	--	--	--	0.00	--	0.01				
0930	5050								--		--	--	--	--	--	--					
09/03/75	5050		20.5C	7.0		57			--		--	--	--	--	0.01	--	--				
1000	5050	147							--	0.16	--	--	--	--	--	--	0.03				
B5 R 736.7 007.9 1 LAKE MCCLURE AT BAGBY																					
07/10/75	5050			8.3		34			--	0.01	0.00	--	--	--	0.00	--	0.01				
09/03/75	5050			7.0		40			--	0.03	0.00	--	--	--	0.00	--	0.02				
1100	5050								--		--	--	--	--	--	--					
B5 R 738.8 017.3 1 LAKE MCCLURE AT BARRETT COVE																					
07/10/75	5050			7.8		48			--	0.01	0.00	--	--	--	0.00	--	0.00				
09/03/75	5050			7.0		42			--		--	--	--	--	0.00	--	--				
1400	5050								--	0.00	--	--	--	--	--	--	0.01				
B5 R 740.5 013.8 1 LAKE MCCLURE AT LOWER HOURSSEHOF REND																					
07/10/75	5050			7.2		39			--	0.01	0.00	--	--	--	0.00	--	0.01				
09/03/75	5050			6.6		37			--	--	0.00	--	--	--	0.00	--	0.01				
09/03/75	5050								--	--	--	--	--	--	--	--					
B5 R 741.6 016.1 1 LAKE MCCLURE AT UPPER HOURSSEHOF REND																					
07/10/75	5050			8.3		40			--	0.02	0.00	--	--	--	0.00	--	0.01				
09/03/75	5050			6.9		39			--	--	0.00	--	--	--	0.01	--	0.01				
1305	5050								--	--	--	--	--	--	--	--					
B5 1200.00 MERCED RIVER BELOW EXCHEQUER DAM																					
09/03/75	5050		55.0C	7.5		24			--	0.00	0.07	--	--	--	0.00	--	0.01				
0800	5050	2648							--	--	--	--	--	--	--	--					
B5 1320.00 MERCED RIVER AT BAGBY																					
11/13/74	5050		21.5C	7.1		63			--	--	--	--	--	0.1	--	0.01	--				
1530	5050								--	--	0.01	--	--	--	--	--	0.02				
B5 1410.10 MERCED RIVER ABOVE BRICERBURG																					
11/13/74	5050		10.0C	7.3		40			--	--	--	--	--	0.0	--	0.01	--				
1330	5050								--	--	0.05	--	--	--	--	--	0.01				
B5 1517.10 MERCED RIVER BELOW EL PORTAL																					
11/13/74	5050		8.6C	7.3		37			--	--	0.21	--	--	0.0	--	0.02	--				
1130	5050								--	--	--	--	--	--	--	--	0.06				
B5 1519.50 MERCED RIVER AT JUNCTION BIG OAK FLAT RD AND HWY 140																					
11/13/74	5050		7.2C	6.8		30			--	--	0.31	--	--	0.0	--	0.02	--				
0930	5050								--	--	--	--	--	--	--	--	0.03				
B5 1700.00 MERCED RIVER AT HAPPY ISLES BRIDGE NEAR YOSEMITE																					
11/13/74	5050		1.37	4.8C	7.0	23			--	--	0.03	--	--	0.0	--	0.00	--				
0715	5050								--	--	--	--	--	--	--	--	0.01				
B5 5152.10 BEAR CREEK ABOVE BEAR CREEK RESERVOIR																					
02/05/75	5050		9.4C	7.5		75			--	--	--	--	--	0.5	--	--	--				
1445	5050	300 E							--	--	0.35	--	--	--	--	--	0.09				
03/12/75	5050		11.5C	8.0		132			--	--	--	--	--	0.3	--	--	--				
1100	5050	65.1							--	--	0.04	--	--	--	--	--	0.03				
04/16/75	5050		15.5C	7.9		185			--	--	--	--	--	0.2	--	--	--				
1430	5050	15							--	--	0.03	--	--	--	--	--	0.04				
B5 6152.50 BURNS CREEK AT MERCED MARIPOSA COUNTY LINE																					
02/05/75	5050		11.5C	7.5		105			--	--	--	--	--	0.6	--	--	--				
1025	5050	50 E							--	--	0.89	--	--	--	--	--	0.07				
03/12/75	5050		10.7C	7.4		156			--	--	--	--	--	0.5	--	--	--				
0930	5050	35.1							--	--	0.20	--	--	--	--	--	0.04				
04/16/75	5050		12.0C	8.0		205			--	--	--	--	--	0.3	--	--	--				
0915	5050	8.0							--	--	0.05	--	--	--	--	--	0.03				
B6 2020.10 OWENS CREEK ABOVE OWENS RESERVOIR																					
02/05/75	5050		10.0C	7.8		115			--	--	--	--	--	0.8	--	--	--				
1250	5050	75 E							--	--	0.58	--	--	--	--	--	0.17				
03/12/75	5050		11 C	8.2		210			--	--	--	--	--	0.6	--	--	--				
0920	5050	12.2							--	--	0.08	--	--	--	--	--	0.07				
04/16/75	5050		15.0C	11.3		249			--	--	--	--	--	0.4	--	--	--				
1245	5050								--	--	0.04	--	--	--	--	--	0.07				

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH	TEMP DEPTH	F-PH	F-EC	FIELD				NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER									
						TURB	CAC03	P	D NO2 + NO3	O NO2	O ORG N	O (NH3 +	D15	D O-PO4	O TOT P	T TOT P	REH		

B6 2204.10 MARIPOSA CREEK ABOVE MARIPOSA RESERVOIR																			
02/05/75 5:50			8.5C	7.4	60				--	--	--	--	--	--	--	--	--	--	--
1040 5:50		200 E							--	0.49	--	0.4	--	--	--	--	--	0.09	--
03/12/75 5:50				8.2	121				--	--	--	--	--	--	--	--	--	--	--
1100 5:50		121							--	0.15	--	0.3	--	--	--	--	--	0.04	--
04/16/75 5:50			12.0C	8.2	135				--	--	--	--	--	--	--	--	--	--	--
1200 5:50									--	0.12	--	0.3	--	--	--	--	--	0.07	--
B7 1340.00 SAN JOAQUIN RIVER ABOVE WILLOW CREEK NEAR AUBERRY																			
10/08/74 5:50			9.7C	6.8	22				--	--	--	--	--	0.00	--	--	--	--	--
0830 5:50									--	0.03	--	0.1	--	--	--	--	--	0.02	--
07/09/75 5:50			12.5C	6.8	15				0.03	0.00	--	--	--	--	--	--	--	--	--
0930 5:50									--	0.03	--	0.1	--	--	--	--	--	0.00	--
B7 1532.50 SAN JOAQUIN RIVER BELOW SNAKEFLAT CREEK																			
10/08/74 5:50			18.5C	7.3	50				--	--	--	--	--	0.00	--	--	--	--	--
1245 5:50									--	0.04	--	0.1	--	--	--	--	--	0.01	--
07/09/75 5:50			13.0C	6.1	15				0.02	0.00	--	--	--	--	--	--	--	--	--
1230 5:50									--	0.02	--	0.2	--	--	--	--	--	0.00	--
B7 4250.50 SAN JOAQUIN RIVER SOUTH FORK AT MOND HOT SPRINGS																			
10/09/74 5:50			8.5C	6.9	20				--	--	--	--	--	0.00	--	--	--	--	--
1200 5:50									--	0.00	--	0.1	--	--	--	--	--	0.01	--
07/08/75 5:50			17.0C	6.8	25				0.01	0.00	--	--	--	--	--	--	--	--	--
0930 5:50									--	0.01	--	0.1	--	--	--	--	--	0.00	--
C0 2550.30 KANEAH RIVER AT LEMONCOVE																			
10/16/74 5:50			21.1C	7.5	120				--	--	--	--	--	0.01	--	--	--	--	--
1430 5:50									--	0.06	--	0.2	--	--	--	--	--	0.02	--
04/23/75 5:50			57.0F		112				0.02	0.00	--	--	--	--	--	--	--	--	--
1400 5:50									--	0.02	--	0.3	--	--	--	--	--	0.04	--
08/06/75 5:50			23.5C	7.1	50				0.02	0.00	--	--	--	--	--	--	--	--	--
1400 5:50									--	0.02	--	0.3	--	--	--	--	--	0.04	--
C0 3195.00 TULE RIVER AT NORTH BRIDGE NEAR BONTEVILLE																			
10/30/74 5:50			18.0C	7.7	232				--	--	--	--	--	0.05	--	--	--	--	--
1500 5:50									--	0.37	--	0.6	--	--	--	--	--	0.10	--
04/09/75 5:50			13.4C	7.8	180				0.01	0.00	--	--	--	--	--	--	--	--	--
1320 5:50									--	0.01	--	0.3	--	--	--	--	--	0.04	--
08/20/75 5:50			24.0C	7.0	145				0.04	0.01	--	--	--	--	--	--	--	--	--
1430 5:50									--	0.03	--	0.6	--	--	--	--	--	0.08	--
C0 5160.10 KERN RIVER AT HART PARK																			
10/02/74 5:50			7.7						--	--	--	--	--	0.02	--	--	--	--	--
1300 5:50									--	0.17	--	0.2	--	--	--	--	--	0.06	--
07/23/75 5:50			23.0C	7.4	97				0.2	0.03	--	--	--	--	--	--	--	--	--
1400 5:50									--	0.17	--	0.4	--	--	--	--	--	0.06	--
C0 5180.10 KERN RIVER AT RANCHERIA BRIDGE																			
10/02/74 5:50			7.7						--	--	--	--	--	0.02	--	--	--	--	--
1200 5:50									--	0.17	--	0.2	--	--	--	--	--	0.03	--
07/23/75 5:50			23.0C	7.5	93				0.23	0.03	--	--	--	--	--	--	--	--	--
1330 5:50									--	0.20	--	0.3	--	--	--	--	--	0.04	--
C1 1115.50 KINGS RIVER NEAR PIEDRA																			
10/23/74 5:50			16.5C	7.2	25				--	--	--	--	--	0.01	--	--	--	--	--
1545 5:50									--	0.02	--	0.2	--	--	--	--	--	0.02	--
05/07/75 5:50			11.0C	8.4	30				0.02	0.00	--	--	--	--	--	--	--	--	--
1100 5:50									--	0.02	--	0.1	--	--	--	--	--	0.00	--
C1 1320.00 BIG CREEK ABOVE PINE FLAT RESERVOIR																			
10/23/74 5:50			1.38	19.0C	7.9	130			--	--	--	--	--	0.00	--	--	--	--	--
1330 5:50									--	0.00	--	0.1	--	--	--	--	--	0.04	--
05/07/75 5:50			2.86	13.0C	50				0.02	0.00	--	--	--	--	--	--	--	--	--
1230 5:50									--	0.02	--	0.1	--	--	--	--	--	0.03	--
C1 1460.00 KINGS RIVER BELOW NORTH FORK																			
10/23/74 5:50			15.0C	7.3	45				--	--	--	--	--	0.01	--	--	--	--	--
1215 5:50									--	0.00	--	0.1	--	--	--	--	--	0.02	--
05/07/75 5:50			5.26	12.8C	7.2	30			0.01	0.00	--	--	--	--	--	--	--	--	--
1340 5:50									--	0.01	--	0.1	--	--	--	--	--	0.09	--
C1 4115.30 KINGS RIVER SOUTH FORK AT CEDAR GROVE																			
10/23/74 5:50			7.1C	7.3	34				--	--	--	--	--	0.00	--	--	--	--	--
0830 5:50									--	0.00	--	0.1	--	--	--	--	--	0.01	--
05/07/75 5:50			5.0C	7.6	22				0.02	0.00	--	--	--	--	--	--	--	--	--
0730 5:50		700							--	0.02	--	0.1	--	--	--	--	--	0.00	--
C2 1210.30 KANEAH RIVER ABOVE LAKE KANEAH																			
10/16/74 5:50			20.0C	7.6	125				--	--	--	--	--	0.00	--	--	--	--	--
1245 5:50									--	0.02	--	0.1	--	--	--	--	--	0.01	--
04/23/75 5:50			57.0F	7.5					0.00	0.00	--	--	--	--	--	--	--	--	--
1300 5:50									--	0.00	--	0.2	--	--	--	--	--	0.01	--
08/06/75 5:50			25.4C	7.8	80				0.00	0.00	--	--	--	--	--	--	--	--	--
1300 5:50									--	0.00	--	0.1	--	--	--	--	--	0.01	--

TABLE D-5 (Cont'd)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	F-PH LAB	F-EC EC	FIELD TURB CAC03 P F-CO2 CAC03 T	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER				PER LITER		O TOT P T TOT P REV			
							O NO2 + T NH3	N O3 O NO3	O ORG N T ORG N	O (NH3 + T ORG N)	O15 A.M.P.D4	O D-PO4 T D-PO4				
C2 2010.30 KAWAHE RIVER NORTH FORK NEAR MOUTH																
10/10/74 0950	5050 5050		15.7C	7.6	158		--	--	--	--		0.00	--	--	0.02	
04/23/75 1015	5050 5050		53.0F	7.4	84		0.02	0.00	--	--	--	--	--	--	0.02	
08/06/75 0930	5050 5050		24.0C	7.6	118		0.	0.00	--	--	--	--	--	--	0.01	
C2 3147.00 KAWAHE RIVER NF BELOW NO 2 INTAKE NR THREE RIVERS																
10/10/74 0820	5050 5050		15.0C	7.6	82		--	--	--	0.0	--	0.00	--	--	0.01	
04/23/75 0900	5050 5050		47.0F	7.4	54		0.04	0.00	--	--	--	--	--	--	0.00	
08/06/75 0830	5050 5050		21.5C	7.2	52		0.05	0.00	--	--	--	--	--	--	0.01	
C2 4201.50 KAWAHE RIVER SOUTH FORK ABOVE GROUSE CREEK																
10/10/74 1115	5050 5050		10.3C	7.7	140		--	--	--	--	--	0.00	--	--	--	
04/23/75 1150	5050 5050		50.0F	7.5	98		0.02	0.00	--	--	--	--	--	--	0.01	
08/06/75 1130	5050 5050		22.0C	8.0	110		0.	0.00	--	--	--	--	--	--	0.01	
C3 1929.30 TULE RIVER BELOW SPRINGVILLE																
10/30/74 1140	5050 5050		13.9C	8.3	275		--	--	--	0.4	--	0.02	--	--	0.00	
04/09/75 1100	5050 5050		10.2C	8.2	130		0.02	0.00	--	--	--	--	--	--	0.02	
08/20/75 1200	5050 5050		3.44	24.5C	8.0	300		0.02	0.00	--	0.3	--	--	--	0.03	
C3 2190.10 TULE RIVER NORTH FORK AT BEAR CREEK ROAD																
10/30/74 0945	5050 5050		12.0C	7.7	271		--	--	--	--	--	0.00	--	--	0.02	
04/09/75 0920	5050 5050		8.5C	7.4	62		0.09	0.00	--	--	--	--	--	--	0.01	
08/20/75 1000	5050 5050		23.0C	7.2	260		0.	0.00	--	--	--	--	--	--	0.04	
C3 3200.00 TULE RIVER SOUTH FORK OF MIDDLE FORK NEAR SPRINGVILL																
10/30/74 0800	5050 5050		2.50	8.2C	8.2	232		--	--	--	0.2	--	0.00	--	0.02	
04/09/75 0800	5050 5050		4.7C	8.2	180		0.	0.00	--	--	0.2	--	--	--	0.01	
08/20/75 0830	5050 5050		15.5C	8.2	215		0.	0.00	--	--	0.0	--	--	--	0.00	
C3 4149.30 TULE RIVER SOUTH FORK ABOVE CREW CREEK																
10/30/74 1340	5050 5050		15.0C	7.7	140		--	--	--	--	0.4	--	0.02	--	0.00	
04/09/75 1200	5050 5050		11.2C	7.6	98		0.26	0.00	--	--	--	--	--	--	0.03	
08/20/75 1300	5050 5050		27.0C	8.1	155		0.01	0.00	--	--	0.2	--	--	--	0.04	
C5 1220.10 KERN RIVER AT MIRACLE HOT SPRINGS																
10/02/74 1000	5050 5050			7.4			--	--	--	--	0.3	--	0.02	--	0.03	
07/23/75 1130	5050 5050		21.0	7.5	90		0.09	0.03	--	--	0.5	--	--	--	0.03	
C5 1500.00 KERN RIVER AT KERNVILLE																
10/02/74 0745	5050 5050			7.5			--	--	--	--	0.2	--	--	--	0.07	
07/23/75 0930	5050 5050		19.0C	7.6	75		0.01	0.00	--	--	0.2	--	--	--	0.02	
C5 1660.10 KERN RIVER ABOVE FAIRVIEW																
10/02/74 0630	5050 5050			7.6			--	--	--	--	0.0	--	0.01	--	0.01	
07/23/75 0800	5050 5050		16.5C	7.4	65		0.	0.00	--	--	--	--	--	--	0.04	
C5 3110.10 KERN RIVER SOUTH FORK NEAR WELDON																
10/02/74 0915	5050 5050			8.1			--	--	--	--	--	--	0.13	--	--	
			0.3				--	0.02	--	--	0.4	--	--	--	0.24	

TABLE D-6
PESTICIDES IN SURFACE WATER

Abbreviations and Codes used in this table are:

Abbreviations

TIME	Pacific Standard Time on a 24-hour clock
TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
EC	Specific electrical conductance in micromhos at 25° Celsius
DO	Dissolved oxygen content in milligrams per litre
PH	Measure of acidity or alkalinity of water
GH	Gage height in feet above an established datum
DEP	Depth in feet at which sample was collected
DISCHARGE	Instantaneous discharge in cubic feet per second

Pesticide Codes

Chlorinated Hydrocarbons

<u>Code</u>	<u>Most Common Name</u>
ATRAZSIMAZ	Atriazine and/or Simazine
CHLORDANE	Chlordane
DACTHAL	Dacthal, DCPA
UNKNOWNNS	Complex chlorinated hydrocarbon compound mixture reported as DDT, one or more
NONE	
DETECTED	No detectable amount of Chlorinated Hydrocarbons

Organic Phosphorus

DIAZINON	Diazinon
UNKNOWNNS	Complex organic phosphorus mixture reported as Parathion, one or more
NONE	
DETECTED	No detectable amount of Organic Phosphorus

Sampler (SAMP) and Laboratory (LAB) Codes

5001	U. S. Bureau of Reclamation
5050	Department of Water Resources

TABLE D-6

DATE TIME	SAMP LAB	TEMP EC	DO PH	R.W. DEP DISCHARGE	PESTICIDES IN SURFACE WATER COMPOUNDS REPORTED IN MILLIGRAMS/LITER				OTHER
					CHLORINATED HYDROCARBON		ORGANIC PHOSPHORUS		
					SALT SLOUGH	NEAR STEVINSON			
					BO 0470.00				
11/20/74 1200	5050 5050	13.0C 1200	8.0 7.6		.00003	DACTHAL		NONE	DETECTED
05/21/75 1230	5050 5050	17 C 1300	7.4		.00004	UNKNOWNNS		.000475	DIAZINON .00012 UNKNOWNNS
08/20/75 1100	5050 5050	23.0C 1100			.00034	UNKNOWNNS		.00001	DIAZINON .00003 UNKNOWNNS
					TUOLUMNE RIVER AT TUOLUMNE CITY BO 4105.00				
05/28/75 1400	5050 5050	24.0C 400	7.5 7.3	24.10	NONE	DETECTED		NONE	DETECTED
					TUOLUMNE RIVER AT LA GRANGE BRIDGE BO 4175.00				
05/29/75 0830	5050 5050	11.0C 30	10.0 7.0		NONE	DETECTED		.00002	UNKNOWNNS
					MERCED RIVER AT MILLIKEN BRIDGE BO 5131.00				
05/28/75 1200	5050 5050	21.0C 70	8.1 8.1		NONE	DETECTED		.000055	UNKNOWNNS
					SAN JOAQUIN RIVER NEAR VERNALIS BO 7020.00				
11/21/74 0900	5050	13.0C 310	8.8 7.3	13.35	NONE	DETECTED		NONE	DETECTED
01/21/75 1600	5001 5050	10 C 645	9.8 7.5	12.46	1	NONE	DETECTED		
05/01/75 1235	5001 5050	19 C 702	8.9 7.8	12.14 2510	1	NONE	DETECTED		
09/11/75 1410	5001 5050	22 C 471	7.9 7.8	12.16 2530	1	.00005	UNKNOWNNS		
					SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE BO 7040.00				
05/28/75 1330	5050 5050	24.0C 500	9.0 7.9	17.53	.000025	DACTHAL		.00002	DIAZINON .00001 PARATHION
					SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE BO 7375.00				
11/20/74 1230	5050 5050	13.0C 1150	9.5 7.6		NONE	DETECTED		NONE	DETECTED
05/21/75 1315	5050 5050	20 C 900	8.0		.00054	UNKNOWNNS		.00008	DIAZINON .00005 UNKNOWNNS
					STANISLAUS RIVER BELOW TULLOCH DAM 83 1158.10				
05/29/75 0630	5050 5050	13.0C 32	11.0 8.4		NONE	DETECTED		.00005	UNKNOWNNS
					MERCED RIVER BELOW EXCHEQUER DAM B5 1200.00				
05/29/75 0930	5050 5050	12.0C 35	9.3 7.2		NONE	DETECTED		.000015	UNKNOWNNS
					KAWEAH RIVER BELOW TERMINUS DAM CO 2185.00				
05/28/75 0815	5050 5050	14.0C 50	11.1 7.2		NONE	DETECTED		.000025	UNKNOWNNS
					TULE RIVER BELOW SUCCESS DAM CO 3196.00				
05/27/75 1600	5050 5050	14.0C 170	11.2 7.4	3.94	NONE	DETECTED		NONE	DETECTED
					KERN RIVER NEAR BAKERSFIELD CO 5150.00				
05/27/75 1150	5050 5050	20.0C 115	9.8 8.0		NONE	DETECTED		.000025	UNKNOWNNS
					BIG CREEK ABOVE PINE FLAT RESERVOIR C1 1320.00				
05/28/75 1000	5050 5050	12.5C 40	11.8 7.2	6.87	NONE	DETECTED		.00003	UNKNOWNNS

APPENDIX E
GROUND WATER QUALITY DATA

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1975 water year (October 1, 1974, through September 30, 1975). These data were obtained from analyses of water samples from approximately 500 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 13th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 125. A 40-acre tract may contain a well that has not been assigned a state number or may have a well that is of a temporary nature. These are numbered in the 80 series; i.e., 15S/22E-27K80M.

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

Abbreviations, Chemical Symbols, and Codes used
in this table are:

<u>Abbreviations</u>			
EC	Specific Electrical conductance in micromhos at 25° Celsius	TEMP	Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
NCH	Noncarbonate Hardness	TH	Total Hardness
SAR	Sodium Adsorption Ratio	TIME	Pacific Standard Time on a 24-hour clock
SUM	Summation of Analyzed Constituents	PH	Measure of acidity or alkalinity of water
TDS	Total Dissolved Solids		
REM	Remarks as follows:		
T	Indicates the TDS does <u>not</u> fall within 20 percent of the calculated SUM of the constituents.		
E	Indicates the TDS value is <u>not</u> within the range of 0.35 to 0.70 of the laboratory electrical conductivity.		
S	Indicates the anion sum and cation sum for a complete analysis are <u>not</u> within the prescribed tolerance of <u>±5</u> percent.		
C	Indicates the laboratory electrical conductivity divided by the EC-EPM factor (or if absent, 100), is <u>not</u> within 20 percent of the average of the cation sum and anion sum for a complete analysis.		
X	Indicates the field electrical conductivity and the laboratory electrical conductivity are <u>not</u> within 20 percent of each other.		

<u>Chemical Symbols</u>			
B	Boron	K	Potassium
CA	Calcium	MG	Magnesium
CL	Chloride	NA	Sodium
CO ₃	Carbonate	NO ₃	Nitrate
F	Fluoride	SiO ₂	Silica
HCO ₃	Bicarbonate	SO ₄	Sulphate

Sampler (SAMP) and Laboratory (LAB) Codes

5050	Department of Water Resources
5121	Kern County Water Agency
5191	Agricultural Technical Services Company
5205	City of Delano
5617	Semitropic Water Storage District
5647	Tehachapi-Cummings Water District
5701	California Water Service Company
5802	Twining Laboratory - Fresno
5806	B. C. Laboratory

MINERAL ANALYSES OF GROUND WATER

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TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																							
DATE TIME	SAMPLER LAB	TEND	FIELD LABORATORY PH	FIELD EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				REMARKS
					CA	MG	NA	K	CO3	MO3	SO4	CL	NO3	H	F	TDS SUM	TH	NCH	540				
CENTRAL VALLEY SAN JOAQUIN VALLEY																							
05/20/75 1345	5050 5050	M 2h	F 7.9	266 267	20 1.00	5.1 37	28 1.22	3.4 0.09	0 3	127 2.08	1.8 0.04	9.6 27	14.0 23	.00 --	--	147 144	71 0	1.4					
05/20/75 1400	5050 5050	M 19	F C 8.0	260 1.33	20 1.33	11 38	26 1.13	4.6 1.12	0 3	144 2.36	5.4 1.11	27 76	14.0 23	.10 --	--	232 165	111 0	1.1					
05/20/75 0930	5050 5050	M 16	F C 8.2	260 675	56 2.79	24 1.97	58 2.62	3.0 0.08	0 1	374 6.13	31 0.6	12 5	23.0 5	.00 --	--	397 391	240 0	1.6					
05/20/75 0900	5050 5050	M 24	F C 8.1	360 357	28 1.42	17 39	34 1.40	0 0.09	0 2	167 2.74	10 2.21	9.4 27	26.0 42	.00 --	--	254 194	141 6	0.6	E T				
05/21/75 1230	5050 5050	M 19	F C 7.6	300 286	22 1.10	12 34	18 0.78	3.2 0.08	0 3	154 2.56	5.9 1.12	6.6 19	4.1 0.07	.00 --	--	214 149	104 0	0.8	E T				
05/20/75 1440	5050 5050	M 18	F C 8.1	266 242	10 3.7	18 34	2.8 0.65	0 0.07	0 3	116 1.90	1.8 0.04	7.9 22	10.0 16	.00 --	--	194 123	86 0	0.7	E T				
05/19/75 1740	5050 5050	M 16	F C 7.8	94 91	7.0 4.0	4.4 10	2.1 0.7	2.3 0.0	0 0.0	49 1.13	6.2 0.03	0 0.01	4.4 1	.00 --	--	62 47	37 0	0.2	T				
05/21/75 1300	5050 5050	M 21	F C 7.4	234 274	15 3.75	7.9 30	16 0.65	4.0 1.10	0 0.0	39 1.62	4.1 0.09	9.7 27	14.0 23	.00 --	--	169 119	70 0	0.8	E T				
05/19/75 1730	5050 5050	M 2	F C 7.9	143 24	8.2 0.41	4.7 27	13 0.40	2.2 0.4	0 0.0	77 1.26	2.3 0.05	1.2 2	2.0 0.03	.00 --	--	144 71	40 0	0.9	E T				
05/19/75 1714	5050 5050	M 7	F C 8.1	220 198	10 5.0	5.1 23	17 0.74	5.1 1.13	0 0.0	73 1.20	3.6 0.07	13 37	7.3 12	.00 --	--	174 97	46 0	1.1	E T				
05/19/75 1600	5050 5050	M 2h	F C 7.5	600 604	43 2.15	7.8 12	55 2.39	3.0 0.08	0 0.0	79 1.29	14 2.29	127 3.59	11.0 18	.00 --	--	419 300	139 75	2.0	T				
05/19/75 1445	5050 5050	M 2h	F C 7.8	214 202	13 0.65	5.7 34	15 0.45	0 1.6	0 0.0	75 1.23	3.8 0.08	17 26	5.6 5	.00 --	--	171 103	56 0	0.9	E T				
05/19/75 1700	5050 5050	M 7.6		85 81	2.4 1.12	1.0 0.08	12 0.52	3.2 0.08	0 0.0	41 0.67	2.3 0.05	2.0 0.06	4 0.01	.00 --	--	104 43	10 0	1.6	E T				
05/19/75 1630	5050 5050	M 21	F C 7.4	300 301	22 1.10	9.5 30	19 0.78	5.4 1.15	0 0.0	122 2.00	6.6 1.14	21 59	10.0 16	.00 --	--	232 154	94 0	0.9	E T				
05/19/75 1300	5050 5050	M 2h	F C 7.9	400 264	21 1.05	13 1.07	13 0.57	0 0.02	0 0.0	139 2.28	15 3.1	5.4 15	7 0.01	.00 --	--	157 137	108 0	0.6	X T				
10/17/74 1100	5050 5050	M 21	F C	1760	--	--	--	--	--	--	--	97 2.74	38.0 61	.70 --	--	562							
05/21/75 1200	5050 5050	M 24	F C 8.0	1058 1060	46 4.79	50 4.11	57 2.48	1.2 0.08	0 1	343 5.62	152 3.16	66 1.44	54.0 87	.20 --	--	700 647	447 144	1.2					
05/21/75 1130	5050 5050	M 2h	F C 7.8	1666 1450	134 6.69	71 34	102 4.44	4.0 1.10	0 0.0	449 7.36	162 3.17	208 5.97	62.0 1.00	.40 --	--	1050 964	426 259	1.8					
05/21/75 0900	5050 5050	M 21	F C 8.0	1014 1020	90 4.49	47 34	64 2.78	4.1 1.10	0 0.0	412 6.75	146 3.16	50 1.41	6.8 11	.40 --	--	635 611	420 81	1.4					
05/21/75 0940	5050 5050	M 2h	F C 8.2	812 410	63 3.14	41 35	52 3.37	3.6 0.09	0 0.0	308 4.92	155 1.23	24 58	6.0 10	.40 --	--	531 493	327 80	1.3					

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSES OF GROUNDWATER																								
DATE TIME	SAMPLER L#	TEMP	FIELD LABORATORY PH	FIELD FC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REM				
					CA	MG	NA	K	CO ₃	HC0 ₃	SO ₄	CL	NO ₃	B	F	SIU ₂	SUM	TH	NCH		5AR			
CENTRAL VALLEY SAN JOAQUIN VALLEY																								
05/22/75 0700	075/09L=04401 5050 5150	M 63 17	F C	7.9	3960 3850	205 10.25	147 24	485 48	0 1	530 19	854 17.78	640 18.5	15.0 24	2.20 1	-- --	2810 2619	1120 685	6.3	E 5					
05/22/75 1155	075/14E=27001 5050 5150	M 63 17	F C	7.9	746 739	58 2.89	23 38	62 2.70	1.8 0.05	0 0	197 3.23	151 3.14	38 1.7	13.0 .21	.40 --	489 444	240 78	1.7						
05/21/75 1350	075/14L=31601 5150 5150	M 67 19	F C	8.0	1374 1350	102 5.09	45 30	120 25	2.1 37	0 0	351 5.75	181 7.77	145 4.09	42.0 .68	.70 --	914 810	439 152	2.5						
05/21/75 1415	075/14E=33101 5050 5150	M 64 2	F C	7.9	1246 1250	70 3.79	58 30	92 38	2.6 32	0 1	308 5.05	171 3.56	134 3.48	36.0 .58	.50 --	830 722	428 176	1.9	S					
05/22/75 0915	075/10E=15F01 5150 5150	M 72 22	F C	8.3	1270 1280	15 1.70	24 5	244 24	3.3 12	0 0	619 10.15	39 75	94 2.65	.4 0.1	.40 --	806 742	47 0	18.0						
05/22/75 0800	075/15E=18D01 5150 5150	M 60 21	F C	8.3	1224 1230	24 1.49	6.7 1.2	235 10.22	3.9 A3	0 1	564 8.26	46 98	122 3.4	.4 0.1	.30 --	744 691	100 0	10.2	S					
05/22/75 0910	175/10E=21F03 5150 5150	M 71 22	F C	7.9	3400 3370	74 3.09	4.6 11	660 27.84	7.2 2	0 0	614 10.05	110 2.29	752 21.21	.2 0.0	.60 --	1910 1890	224 0	18.6						
05/22/75 1105	175/10E=23H01 5150 5150	M 72 22	F C	8.3	3900 3850	82 4.09	14 10	840 38.54	8.4 .21	0 0	1490 24.42	132 2.75	538 15.17	.5 0.1	.90 --	2450 2348	264 0	22.6						
05/22/75 1245	075/10E=24E01 5150 5150	M 75 24	F C	8.3	912 918	39 1.95	16 20	147 14	2.9 6.1	0 0	441 7.23	49 1.02	48 1.75	12.0 .19	.10 --	592 531	165 0	5.0						
05/23/75 0825	075/11E=01H01 5150 5150	M 60 21	F C	8.1	404 498	47 4.09	16 1.32	16 1.57	8.5 .22	0 0	251 4.11	22 4.6	64 1.8	18.0 .61	.00 --	343 297	181 0	1.2						
05/22/75 1350	075/11E=18K01 5150 5150	M 71 21	F C	8.1	1178 1200	31 1.5	4.7 3	221 92	4.4 1	0 0	386 6.33	36 7.1	173 4.88	.3 0.0	.20 --	695 658	97 0	9.8						
05/23/75 0730	075/11E=01P01 5150 5150	M 64 20	F C	8.2	859 932	63 3.14	18 1.08	114 4.96	6.0 .15	0 0	418 6.85	36 7.9	70 2.14	12.0 .19	.10 --	581 533	232 0	3.3						
05/27/75 0810	075/12E=03F01 5150 5150	M 68 21	F C	8.1	186 182	12 4.0	3.9 34	18 1.0	1.0 .04	0 0	65 1.07	18 .37	4.0 .11	17.0 .27	.00 --	184 106	46 0	1.2						
05/23/75 1010	075/12E=08E01 5150 5150	M 68 2	F C	8.1	420 415	30 1.72	14 1.15	13 1.44	1.9 .05	0 0	192 3.15	20 4.2	74 10	37.0 .14	.00 --	298 243	144 0	1.2						
05/27/75 0920	075/13E=10H01 5150 5150	M 59 21	F C	8.1	330 325	53 1.05	13 1.07	14 6.1	2.0 .05	0 0	143 2.34	17 3.35	64 1.8	30.0 .14	.00 --	262 186	136 19	0.5						
05/27/75 1440	075/13E=22H01 5050 5150	M 71 21	F C	8.1	420 416	60 2.99	28 1.83	42 1.0	4.1 .10	0 0	394 6.46	20 4.2	3.5 6	7.8 1	.00 --	412 359	265 0	1.1						
05/27/75 1030	075/14E=15401 5150 5150	M 60 20	F C	8.1	212 207	18 4.0	0.0 .66	14 6.1	1.3 .03	0 0	107 1.75	86 1.8	5.0 1.4	6.5 .10	.00 --	179 112	73 0	0.7						
05/27/75 1000	075/14E=28A02 5150 5150	M 67 14	F C	8.0	452 442	40 2.00	21 1.73	25 1.09	3.3 .08	0 0	284 4.65	11 2.3	2.5 .07	4.2 .07	.00 --	302 247	188 0	0.8						
05/27/75 0900	075/14E=31H01 5050 5150	M 70 21	F C	8.2	322 305	23 1.15	7.4 3.7	27 1.17	8.0 .70	0 0	151 2.67	19 4.0	7.4 2.1	8.6 .14	.00 --	242 175	88 0	1.3						
05/27/75 0930	075/14L=32E01 5150 5150	M 71 21	F C	8.0	1074 1050	43 4.64	46 3.78	85 3.70	7.5 .09	0 0	608 9.97	37 7.7	39 6	30.0 .4	.10 --	688 633	420 0	1.8						

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																				
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PM	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					REMARKS
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCM	SAR		
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
05/27/75 1220	S530 S530	71 22	F C	8.2	448 439	34 170	15 123	40 1.74	0 .13	0 3.25	198 69	42 .87	12 134	15.0 24	.00 5	-- 260	302 0	147 0	1.4	
05/27/75 1200	S530 S530	67 19	F C	8.1	742 736	66 329	38 313	46 2.00	3.0 .08	0 .00	328 538	102 212	13 .37	98.0 45	.00 5	-- 457	493 52	723 1.1		
05/27/75 1440	S530 S530	71 22	F C	8.1	464 451	40 2.00	19 1.56	32 1.39	4.1 .10	0 .00	284 41	12 .25	4.0 2	5.8 2	.00 2	-- 257	290 0	177 0	1.0	
05/27/75 1415	S530 S530	68 27	F C	8.2	318 316	25 1.25	11 90	23 1.00	4.2 .11	0 .00	158 2.59	15 .31	7.9 2.2	12.0 19	.00 6	-- 176	240 0	109 1.0	E T	
10/16/74 1100	S530 S530	72 22	F C		-- 3710	-- --	-- --	-- --	-- --	-- --	-- --	-- 766	.5 22.17	3.00 .01	-- --	-- --	292		5	
08/26/75 5802	S502 S502	71 22	F C		200 190	4.0 .99	25 1.09	1.0 .03	0 .00	0 1.46	89 62	7.0 1.5	18 .51	1.0 23	.10 --	-- 134	209 0	72 1.3	E TC	
08/26/75 5802	S502 S502	71 22	F C		250 242	5.0 1.10	25 1.09	1.0 .03	0 .00	0 1.46	119 61	7.0 1.5	18 .51	9.0 23	.10 --	-- 140	219 0	76 1.3	E TC	
08/26/75 5802	S502 S502	71 22	F C		235 235	5.0 1.10	20 1.09	1.0 .03	0 .00	0 1.46	89 61	7.0 1.5	14 .51	24.0 23	.10 --	-- 137	214 3	76 1.0	E TC	
01/14/75 0845	S530 S530	52 11	F C	7.8	476 493	52 2.54	22 1.81	15 1.65	2.9 .07	0 .00	268 439	17 .35	6.2 1.7	1.0 23	.00 4	-- 261	313 1	226 0	0.4	
01/14/75 1300	S530 S530	7.2			516 531	6.3 3.14	21 1.73	16 .70	1.0 .05	0 .00	293 4.40	11 .23	7.7 .51	24.0 15	.00 --	-- 289	305 0	242 0.4		
01/14/75 1445	S530 S530	7.6			366 382	4.3 7.15	14 1.15	10 .44	1.9 .05	0 .00	210 3.44	9.0 .19	1.9 .05	12.0 19	.00 --	-- 195	254 0	170 0.3	T	
01/14/75 0825	S530 S530	7.3			418 445	35 1.75	15 1.23	31 1.35	3.0 .08	0 .00	202 3.31	12 .25	6.2 .17	1.0 .59	.00 --	-- 245	274 0	154 1.1		
01/14/75 1400	S530 S530	7.1			334 350	25 1.25	12 .99	24 1.04	3.2 .08	0 .00	140 2.29	11 .23	9.1 .26	37.0 18	.00 --	-- 190	222 0	114 1.0		
01/14/75 1045	S530 S530	7.4			470 704	74 3.69	19 1.56	45 1.96	5.0 .13	0 .00	361 5.92	16 .33	29 .42	17.0 27	.00 --	-- 383	423 0	270 1.2		
01/14/75 1115	S530 S530	7.6			314 319	31 1.35	10 .82	18 24	3.3 .2	0 .00	153 2.51	8.1 .13	8.2 .23	20.0 32	.00 --	-- 172	225 0	121 0.7	E TC	
01/14/75 1230	S530 S530	7.5			328 336	32 1.60	13 1.07	18 .78	1.6 .04	0 .00	158 2.59	11 .23	6.2 .17	26.0 42	.00 --	-- 185	246 134	4 0.7	E TC	
01/14/75 1010	S530 S530	7.3			400 419	34 1.65	14 1.15	24 1.22	2.9 .07	0 .00	151 2.47	25 .52	11 .31	14.0 71	.00 --	-- 232	281 17	139 1.0		
09/11/75 5701	S701 S701	68 20	F C	7.6	289 57	34 11	20 29	2.5 .08	.4 .01	131 76	10 .21	12 .11	21.0 11	-- 19.0	-- --	188 187	102 0	0.9		
05/27/75 5701	S701 S701	71 21	F C	8.3	167 95	18 .90	16 .70	1.6 .04	.9 .03	66 1.08	9.0 .19	11 .31	6.0 10	-- 13.0	-- --	109 108	46 0	1.0		
08/18/75 5701	S701 S701	68 20	F C	8.0	247 55	27 1.35	3.0 1.25	18 .78	2.5 .08	.7 .02	93 1.57	6.0 .12	22 .62	9.0 15	-- 20.0	-- 155	156 1	82 0.9		

TABLE E-1 (Continued)

DATE TIME		SAMPLE LAB	TRMP	FIELD LABORATORY PH FC	MINERAL ANALYSES OF GROUND WATER										MILLIGRAMS PER LITER										REM
					MINERAL CONSTITUENTS IN										MILLIEQUIVALENTS PER LITER										
					CA	MG	NA	K	CO ₃	HC0 ₃	SO ₄	CL	NO ₃	0	F	S102	TOS	TM	NCH	SAR					
CENTRAL VALLEY SAN JOAQUIN VALLEY																									
09/11/75	5701	1AC/22E-05C02	M	71 F	21	2.0	2.0	17	2.0	.4	87	5.0	17	7.0	--	.1	138	66	0	0.9					
	5701		21 C	7.4	216	1.10	.16	.74	.05	.01	1.43	.10	.48	21.0	136										
					54	4	.76	.2			.67		.23												
03/03/75	5701	1AC/22E-05E01	M	64 F	21	4.0	18	2.3	.8	96	7.0	19	8.0	--	.1	159	80	2	0.9						
	5701		21 C	8.1	246	1.30	.33	.78	.06	.03	1.57	.15	.54	27.0	159										
					53	13	.32	.2	1	.65			.22												
09/16/75	5701														.10	--								5	
07/02/75	5701	1AC/22E-05F02	M	71 F	21	1.0	1.0	17	1.7	1.3	.61	4.0	12	4.0	--	.1	98	36	0	1.3					
	5701		21 C	8.5	152	.60	.08	.74	.04	.04	1.00	.08	.34	14.0	97										
					41	5	.61	.3	.3	.66			.22												
05/27/75	5701	1AC/22E-05H01	M	69 F	21	4.0	21	2.5	.4	113	8.0	25	13.0	--	.1	183	98	3	0.9						
	5701		21 C	8.0	296	1.60	.33	.91	.06	.03	1.85	.17	.71	28.0	182										
					59	11	.31	.2	1	.62			.24												
04/01/75	5701	1AC/22E-06G01	M	67 F	14	7.7	102	4.0	2.0	3.0	.5	153	24	23	22.0	--	.0	249	130	3	1.1				
	5701		14 C	7.7	102	2.25	.43	1.22	.06	.02	2.51	.58	.65	24.0	249										
					58		.9	.31	.2	.62			.16												
03/03/75	5701	1AC/22E-06K01	M	61 F	21	1.0	21	1.7	1.2	.73	7.0	14	11.0	--	.1	129	50	0	1.3						
	5701		21 C	8.4	198	.90	.08	.91	.04	.04	1.20	.15	.49	18.0	129										
					47	4	.47	.2	.2	.61			.20												
05/22/75	5701														.06	--								5	
08/18/75	5701	1AC/22E-06L01	M	71 F	21	1.0	20	3.0	21	2.5	.4	101	9.0	23	11.0	--	.1	165	84	0	1.0				
	5701		21 C	8.1	264	1.40	.25	.91	.06	.03	1.66	.19	.65	17.0	165										
					53	10	.35	.2	1	.61			.24												
04/01/75	5701	1AC/22E-07A01	M	67 F	14	8.0	194	4.0	2.0	3.0	1.0	149	12	35	14.0	--	.0	241	140	16	0.9				
	5701		14 C	8.0	194	2.20	.54	1.04	.08	.03	2.44	.25	.99	23.0	240										
					50		.15	.27	.2	.62			.25												
08/18/75	5701	1AC/22E-07C02	M	71 F	21	1.0	19	1.5	.4	59	4.0	12	8.0	--	.1	101	36	0	1.4						
	5701		21 C	8.4	149	.65	.08	.83	.04	.03	.97	.08	.34	13.0	102										
					41	5	.52	.3	.2	.63			.22												
10/07/74	5701	1AC/24E-25L01	M	67 F	19	7.4	418	5.0	17	1.4	1.0	184	15	18	17.0	--	.1	248	173	18	0.6				
	5701		19 C	7.4	418	2.74	.84	.74	.04	.03	3.32	.31	.51	27.0	247										
					66	16	1.8	1	1	.73			.12												
05/29/75	5701		64 F	21	7.4	342	4.0	1.0	1.5	.7	162	11	15	11.0	--	.1	205	144	9	0.5					
	5701		21 C	7.4	342	2.24	.66	.45	.04	.02	2.66	.23	.42	18.0	204										
					62	19	.18	1	1	.76			.12												
04/19/75	5701	1AC/24E-27R02	M	71 F	21	1.0	30	3.0	14	1.0	.3	117	8.0	11	7.0	--	.1	152	88	0	0.7				
	5701		21 C	8.4	241	1.50	.25	.70	.03	.01	1.92	.17	.31	11.0	152										
					60	10	.24	1		.76			.12												
07/03/75	5701	1AC/24E-35R01	M	67 F	14	8.0	22	1.0	14	1.0	.9	86	4.0	10	4.0	--	.1	112	60	0	0.8				
	5701		14 C	8.2	184	1.10	.08	.61	.03	.03	1.41	.08	.28	12.0	111										
					60	4	.34	.2	.2	.76			.15												
04/16/75	5701	1AC/24E-36C01	M	64 F	14	8.0	26	2.0	15	1.2	1.1	94	6.0	13	8.0	--	.1	142	78	0	0.7				
	5701		14 C	8.2	221	1.40	.14	.65	.03	.04	1.61	.12	.37	13.0	141										
					63	7	.29	1	2	.71			.16												
05/29/75	5701	1AC/24E-36E01	M	67 F	14	8.0	31	2.0	14	1.6	.5	111	6.0	11	4.0	--	.1	141	86	0	0.7				
	5701		14 C	7.9	240	1.55	.18	.61	.04	.02	1.82	.12	.31	15.0	140										
					66	7	.26	.2	1	.78			.13												
01/17/75	5701	1AC/24E-36N01	M	65 F	18	7.7	46	6.0	13	1.0	.5	155	10	13	12.0	--	.1	201	140	12	0.5				
	5701		18 C	7.7	324	2.30	.49	.57	.03	.02	2.54	.21	.37	19.0	202										
					68	14	.17	1	1	.76			.11												
10/07/74	5701	1AC/24E-36O01	M	67 F	19	7.4	245	3.0	12	1.1	.7	135	8.0	9.0	9.0	--	.1	174	115	3	0.5				
	5701		19 C	7.4	285	1.45	.33	.52	.03	.02	2.21	.17	.25	15.0	173										
					69	12	.18	1	1	.79			.09												
04/16/75	5701	1AC/25E-14N01	M	65 F	18	7.4	34	5.0	7.0	.7	.2	122	7.0	8.0	7.0	--	.1	167	106	5	0.3			E	
	5701		18 C	7.4	236	1.70	.41	.30	.02	.01	2.08	.15	.23	16.0	167										
					70	17	.12	1		.80			.09												
10/08/74	5701	1AC/25E-14N02	M	66 F	19	7.2	237	3.0	7.0	.8	.1	122	8.0	6.0	7.0	--	.1	164	108	9	0.3				
	5701		19 C	7.2	237	1.60	.58	.10	.02	.00	2.06	.17	.17	11.0	164										
					64	23	.12	1		.82			.07												
02/04/75	5701		64 F	18	7.2	32	4.0	7.0	.7	.1	110	6.0	7.0	7.0	--	.1	158	98	7	0.3					
	5701		18 C	7.2	227	1.60	.33	.10	.02	.00	1.88	.17	.28	11.0	158										
					71	15	.13	1		.79			.09												

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																									
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER										REM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	8	F	TDS SUM	TH NCM	SAR						
CENTRAL VALLEY SAN JOAQUIN VALLEY																									
06/06/75	5701	18C/25E-14N02	M			--	--	--	--	--	--	CONTINUED				--	--								
04/17/75	5701	18C/25E-19N01	M	66 F 19 C	8.1	193	24 1.20 61	2.0 16 8	13 57 29	1.1 03 1	9 1.69 82	103 10 5	5.0 1.0 7	5.0 0.8 4	--	.0	125	70	0	0.7				5	
02/28/75	5701	18C/25E-20E01	M			304	39 1.95 61	4.0 74 23	11 48 15	1.1 03 1	1.1 74 1	157 2.57 81	8.0 5 5	8.0 16 5	.00	.1	193	136	4	0.4					
09/29/75	5701	18C/25E-23C01	M	60 F 16 C	7.2	161	22 1.19 71	2.0 16 10	6.0 26 17	.7 02 1	1 75 79	75 1.23 10	2.0 1.15 7.0	7.0 11 4	--	.1	106	64	2	0.3					
09/02/75	5701	18C/25E-27N01	M	65 F 18 C	8.3	183	23 1.15 63	2.0 16 9	11 48 26	1.0 03 2	1.2 04 2	88 1.44 79	5.0 10 5	5.0 14 5	--	.1	115	66	0	0.6					
09/02/75	5701	18C/25E-27P01	M	65 F 18 C	8.4	184	17 1.05 59	1.0 08 5	17 26 44	1.0 05 2	1.4 1.34 3	82 1.23 77	6.0 1.12 7	6.0 11 3	--	.1	107	46	0	1.1					
04/16/75	5701	18C/25E-28D01	M	64 F 18 C	8.1	184	26 1.30 67	2.0 16 8	10 44 23	1.0 03 2	.8 1.61 2	98 1.0 5	5.0 1.16 7	5.0 14 3	--	.1	122	74	0	0.5					
03/21/75	5701	18C/25E-28L01	M	64 F 16 C	7.5	254	34 1.70 63	6.0 44 18	11 48 18	1.1 03 1	.3 01 2	131 2.15 79	9.0 1.17 8	8.0 23 6	--	.1	171	110	2	0.5					
05/29/75	5701	18C/25E-29B01	M	64 F 18 C	7.9	182	24 1.20 67	1.0 08 4	11 48 27	1.3 03 2	.5 0.7 1	97 1.59 88	5.0 1.10 6	2.0 1.16 3	--	.1	108	64	0	0.6					
02/04/75	5701	18C/25E-29C01	M	64 F 16 C	7.5	159	20 1.00 62	3.0 25 15	8.0 35 22	.6 02 1	.2 1 1	75 1.23 77	6.0 1.12 8	6.0 11 4	--	.1	105	64	1	0.4					
02/04/75	5701	18C/25E-29Q01	M	64 F 18 C	7.7	226	32 1.60 69	10 25 11	1.0 44 19	1.0 03 1	.4 01 1	112 1.84 80	7.0 1.15 7	6.0 1.13 6	--	.1	148	92	0	0.5					
03/21/75	5701	18C/25E-30F01	M	66 F 19 C	8.2	174	22 1.10 59	2.0 16 9	13 47 31	1.0 03 2	1.0 1.52 2	93 1.18 83	5.0 1.10 5	5.0 1.08 3	--	.1	113	62	0	0.7					
10/07/74	5701	18C/25E-30P01	M	66 F 19 C	7.9	398	50 1.74 70	6.0 49 13	15 45 17	1.6 04 1	.8 03 1	157 2.57 65	17 1.35 9	25 1.29 7	--	.1	241	162	32	0.5					
09/02/75	5701	18C/25E-30F01	M	66 F 19 C	7.9	405	59 2.34 73	5.0 41 10	15 45 16	1.6 04 1	.8 03 1	165 2.78 64	19 4.0 10	27 1.76 18	--	.1	244	168	31	0.5					
05/29/75	5701	18C/25E-30R02	M	67 F 14 C	7.7	269	35 1.75 66	3.0 25 9	14 44 23	1.6 04 2	.6 01 2	126 2.77 77	10 1.21 7	11 1.11 4	--	.0	162	102	0	0.6					
02/04/75	5701	18C/25E-31B01	M	65 F 16 C	7.6	228	36 1.50 60	2.0 16 7	12 42 24	1.1 03 1	.3 01 1	102 1.67 74	8.0 1.17 8	8.0 1.28 12	--	.1	141	86	0	0.6					
04/17/75	5701					--	--	--	--	--	--	--	--	--	.00	--								5	
09/02/75	5701	18C/25E-31B03	M	66 F 19 C	7.8	357	50 2.45 66	7.0 58 16	13 57 15	1.1 03 1	.6 0.7 1	150 2.31 8	15 1.73 8	26 1.13 20	--	.1	216	152	30	0.5					
09/02/75	5701	18C/25E-31E01	M	66 F 19 C	8.1	274	32 1.40 70	2.0 16 7	11 49 21	1.1 03 1	.9 03 1	108 1.77 77	6.0 1.12 5	10 1.28 12	--	.1	136	88	0	0.5					
02/04/75	5701	18C/25E-31K01	M	65 F 18 C	7.9	192	26 1.30 67	1.0 08 4	12 42 27	1.1 03 2	.5 02 1	97 1.59 82	4.0 1.08 4	7.0 1.10 3	--	.1	119	70	0	0.6					
03/19/75	5701	18C/25E-31R01	M			218	29 1.49 67	1.0 08 4	14 41 28	1.3 03 1	.9 0.7 1	108 1.77 74	8.0 1.12 5	8.0 1.23 10	.00	.1	139	78	0	0.7					

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH EC	MINERAL ANALYSIS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REM
				Ca	Mg	Na	K	CO ₃	CO ₃	SO ₄	CL	NO ₃	8	F	105	TM	NCH	549	
CENTRAL VALLEY SAN JOAQUIN VALLEY																			
05/29/75	5701 5701	65 18	F C	7.9 202	28 1.40 60	3.0 25 12	10 44 21	1.3 03 1	.6 02 1	109 1.74 86	4.0 08 4	5.0 14 2	3.0 05 2	-- 17.0	125 125	82 0	0.5		
05/29/75	5701 5701	65 18	F C	7.4 209	30 1.59 72	2.0 16 8	9.0 39 19	1.3 03 1	.6 02 1	111 1.82 86	4.0 08 4	5.0 14 2	3.0 05 2	-- 19.0	129 128	84 0	0.4		
04/18/75	5701 5701	66 19	F C	7.3 276	37 1.85 65	0.0 25 17	11 48 17	.8 02 1	.2 01 1	119 1.95 69	13 27 10	11 31 11	18.0 29 10	-- 33.0	188 189	116 19	0.4		
09/19/75	5701 5701				--	--	--	--	--	--	--	--	--	.00	--				
07/03/75	5701 5701	65 19	F C	7.8 221	27 1.35 61	4.0 23 15	12 52 23	1.0 02 1	.4 01 1	107 1.75 77	4.0 12 5	9.0 25 11	9.0 15 7	-- 19.0	140 140	86 0	0.6		
07/03/75	5701 5701	65 18	F C	7.8 420	62 3.09 75	0.0 49 12	14 61 14	1.0 03 1	.7 02 1	172 2.82 96	14 29 7	30 85 20	17.0 27 6	-- 19.0	249 248	180 37	0.5		
04/16/75	5701 5701	64 18	F C	8.1 368	54 2.69 75	3.0 25 7	14 61 17	1.3 03 1	.8 03 1	118 1.93 53	7.0 15 4	9.0 13 13	8.0 13 4	-- 25.0	221 220	148 49	0.5		
09/02/75	5701 5701	67 19	F C	7.3 314	46 2.30 73	3.0 25 9	13 47 18	.9 02 1	.7 02 1	135 2.21 76	10 21 7	14 19 12	21.0 34 11	-- 20.0	195 195	128 16	0.5		
10/07/74	5701 5701	65 18	F C	7.3 210	24 1.45 71	1.0 08 4	11 48 24	1.2 03 1	.7 02 1	106 1.74 83	6.0 12 6	5.0 14 7	5.0 08 4	-- 20.0	131 131	79 0	0.5		
10/07/74	5701 5701				--	--	--	--	--	--	--	--	--	.01	--				
07/03/75	5701 5701	66 19	F C	8.1 208	30 1.50 72	1.0 08 4	11 48 23	1.3 03 1	.9 03 1	111 1.86 77	4.0 12 5	9.0 25 12	6.0 10 5	-- 15.0	131 130	82 0	0.5		
07/03/75	5701 5701	66 19	F C	8.2 174	22 1.10 63	.0 00 08	14 61 35	1.2 03 2	.9 03 2	111 1.33 74	5.0 18 6	9.0 25 14	5.0 08 4	-- 11.0	109 108	56 0	0.8		
07/03/75	5701 5701	65 18	F C	7.9 278	38 1.90 71	2.0 16 6	13 47 21	1.2 03 1	.5 02 1	89 1.46 45	5.0 10 4	34 96 7	7.0 11 4	-- 13.0	156 157	102 29	0.6		
04/16/75	5701 5701	65 18	F C	7.9 347	47 2.35 67	5.0 27 12	16 70 20	1.3 03 1	.8 03 1	145 2.38 67	14 29 6	22 62 18	13.0 21 6	-- 25.0	216 215	140 18	0.6		
10/07/74	5701 5701	67 19	F C	8.2 197	25 1.25 64	1.0 08 4	14 61 31	.9 02 1	.6 02 1	89 1.46 74	4.0 12 6	7.0 20 10	10.0 16 8	-- 19.0	128 127	67 0	0.7		
02/04/75	5701 5701	65 18	F C	7.9 200	27 1.35 68	.0 00 08	14 61 31	.8 02 1	.5 02 1	87 1.43 72	6.0 12 6	8.0 23 12	12.0 19 10	-- 12.0	122 123	68 0	0.7		
04/17/75	5701 5701	65 18	F C	8.1 208	27 1.35 64	1.0 08 4	15 65 31	.9 02 1	.8 03 1	94 1.54 73	4.0 12 6	8.0 23 11	11.0 19 9	-- 22.0	138 138	72 0	0.8		
06/09/75	5121 5191			7.7 420	11 1.35 12	1.3 25 2	3.0 10 13	.0 00 2	0 00 2	208 3.41 70	5.0 10 2	44 7.5 25	7.5 12 2	.49	--	262 261	33 0	6.5	5
05/15/75	5121 5806			7.3 150	2.0 1.14 4	.0 00 0	30 10 13	1.0 03 1	12 03 2	59 1.31 62	5.0 10 6	2.0 1.24 4	.5 01 1	.01	--	80 103	7 0	4.9	7
06/09/75	5121 5191			7.8 1390	27 1.35 11	4.0 23 3	244 10.61 86	2.2 06 1	0 00 1	81 1.33 16	244 5.08 36	267 7.53 54	.5 01 1	.59	--	829 829	84 18	11.6	5
05/14/75	5121 5806			7.0F 21.1C 8.4 190	4.0 2.20 11	.1 01 1	36 1.57 1	.9 02 1	0.4 02 1	54 1.89 50	18 37 21	4.1 23 13	.5 01 1	.01	--	104 121	10 0	4.9	4

TABLE E-1 (Continued)

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL ANALYSES OF GROUND WATER										MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS
					MINERAL CONSTITUENTS IN										PERCENT REACTANCE VALUE				R	F	TOS SUM	TM NCN	5AR				
					Ca	Mg	Na	K	CO3	HC03	SO4	CL	NO3														
CENTRAL VALLEY SAN JOAQUIN VALLEY																											
06/06/75	5121 5006	25K/23E-10P01	M	76.0F 25.5C	8.4	580	8.0 +0 7	.5 +0 1	120 5.22 92	1.4 +0 1	12 +0 7	60 17	5.0 +10 2	151 4.26 74	.5 +0 1	.24	--	325	22	0	11.1						
02/03/75	5017 5006	25K/23E-12H02	M	76 F 24 C	9.3	170	1.9 +0 5	.0 +0 1	37 1.61 95	--	37 1.25 73	10 16	9.0 11	3.2 +0 5	1.7 +0 2	.05	--	96	5	0	7.4						
12/21/74	5017 5006	25K/23E-16P06	M	69 F 21 C	7.8	770	3.0 +0 1.50	.2 +0 1.50	139 6.75 80	--	0 +0 1	40 66	52 1.08	207 5.84 77	1.7 +0 1	.02	--	451	76	43	7.0						
12/27/74	5017 5006	25K/23E-16K00	M	71 F 22 C	7.3	240	3.9 +0 1.14	.0 +0 1	48 2.09 92	--	0 +0 1	56 40	15 1.07	37 +0 46	.9 +0 1	.03	--	124	10	0	6.7						
03/27/75	5017 5006	25K/23E-24H01	M	75 F 24 C	9.1	290	4.3 +0 2.1	.0 +0 1	58 2.52 42	--	41 1.39 43	10 16	5.0 1.0	55 1.58 49	.5 +0 1	.05	--	179	11	0	7.7						
05/15/75	5121 5006	25K/23E-24R00	M	79 F 26 C	9.1	300	5.0 +0 2.25	.0 +0 1	62 2.70 91	1.1 +0 1	23 +0 1	37 20	5.0 1.0	53 5.0	.5 +0 1	.01	--	188	13	0	7.6						
05/15/75	5121 5006	25K/23E-26K00	M	78 F 26 C	9.0	200	3.0 +0 1.15	.0 +0 1	44 1.91 91	1.0 +0 1	36 1.22 58	24 39	5.0 1.0	13 +0 18	.5 +0 1	.01	--	115	8	0	7.0						
04/08/75	5017 5006	25K/23E-27E01	M	73 F 23 C	9.6	180	.1 +0 1	.1 +0 1	43 1.87 99	--	19 +0 1	49 64	10 +0 1	8.9 2.25 13	.5 +0 1	.14	--	108	1	0	23.0						
05/09/75	5121 5006	25K/23E-27H01	M	78 F 26 C	7.1	1240	.99 +0 4.94	.4 +0 1	172 7.48 60	2.6 +0 1	0 +0 1	27 44	111 2.31	344 9.70	2.1 +0 1	.01	--	745	249	227	4.7						
03/27/75	5017 5006	25K/23E-33E01	M	75 F 24 C	8.5	450	2.4 +0 1.20	.1 +0 1	72 3.13 72	--	9.3 +0 1	22 36	4.4 1.92	30 2.77	2.5 +0 1	.03	--	263	61	27	4.0						
05/09/75	5121 5006	25K/24E-33R01	M	76 F 24 C	7.3	8340	1020 +0 50.90	6.8 +0 1	740 32.19 38	9.0 +0 1	0 +0 1	31 50	584 12.16	2520 71.08	6.2 +0 1	.12	--	4902	2578	4911	6.3						
04/08/75	5017 5006	25K/24E-350R01	M	78 F 26 C	9.7	180	.1 +0 1	.1 +0 1	41 1.78 99	--	20 +0 1	47 67	5.0 1.0	12 +0 1	.5 +0 1	.18	--	101	1	0	21.9						
11/26/74	5017 5006	25K/24E-06002	M	73 F 23 C	8.5	540	21 +0 1.05	.5 +0 1	97 4.22 20	--	9.3 +0 1	46 75	81 1.69	89 2.52	4.5 +0 1	.12	--	327	55	2	5.7						
05/09/75	5121 5006	25K/24E-10R01	M	74 F 23 C	7.7	700	.1 +0 1	.1 +0 1	48 2.09 71	1.4 +0 1	0 +0 1	70 15	36 1.75	35 1.00	2.1 +0 1	.01	--	174	40	197	3.3						
03/26/75	5017 5006	25K/24E-11R01	M	75 F 24 C	7.8	500	.44 +0 1	.7 +0 1	56 2.44 52	--	0 +0 1	80 1.31	57 1.19	78 2.21	5.0 +0 1	.03	--	284	113	48	2.3						
06/09/75	5121 5191	25K/24E-12H01	M	76 F 24 C	110		9.0 +0 4.5	.8 +0 1	10 4.4 7	1.2 +0 1	0 +0 1	67 93	1.0 1.0	1.7 +0 1	.4 +0 1	.13	--	58	26	0	0.9						
06/09/75	5121 5191	25K/24E-13P02	M	71 F 21 C	3400	28.44 84	4.7 +0 1	117 5.09 15	3.5 +0 1	0 +0 1	67 1.10	740 15.41	6.02 16.98	19.0 +0 1	.05	--	2110	1443	2109	1.3							
05/09/75	5121 5006	25K/24E-19R02	M	75 F 24 C	7.9	1070	.67 +0 3.34	.3 +0 1	164 7.13 68	2.1 +0 1	0 +0 1	74 1.21	154 2.21	197 5.56	34.3 +0 1	.01	--	650	169	671	5.5						
12/02/74	5017 5006	25K/24E-22H01	M	76 F 24 C	8.4	360	.11 +0 1	.0 +0 1	66 2.87 83	--	6.0 +0 1	26 43	63 1.31	47 1.34	11.6 +0 1	.03	--	221	29	0	5.4						
12/02/74	5017 5006	25K/24E-23P00	M	73 F 23 C	7.3	570	.46 +0 2.30	.3 +0 1	75 3.76 48	--	0 +0 1	43 12	94 1.96	48 2.51	19.6 +0 1	.02	--	357	116	354	3.0						

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																					
DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PM EC	MILLIGRAMS PER LITER										MILLIGRAMS PER LITER						REM	
				MINERAL CONSTITUENTS IN										PERCENT REACTANCE VALUE							
				CA	MG	NA	K	CO3	HC03	SO4	CL	NO3		B	F	TDS SUM	TH NCH	SAR			
CENTRAL VALLEY SAN JOAQUIN VALLEY																					
05/09/75	5121 5006	25C/24E-27H03	M 74 F 23 C 7.7 940	110 4.49 58	1.5 12 1	AR 3.43 4.0	2.4 .06 1	0 .00 1	43 .70 7	195 4.06 43	130 3.67 34	6.7 1.09 11	.01 33.0	--	615 649	281 246	2.3				
12/12/74	5017 5006	25C/24E-27H03	M 76 F 76 C 7.5 210	10 50 22	.1 .01 1	41 1.78 78	-- .00 1	0 .00 1	57 .93 48	43 .90 39	15 .43 18	3.5 .06 5	.03 --	--	142 141	26 0	3.5				
06/06/75	5121 5006	25C/24E-27H03	M 75 F 24 C 8.6 290	13 23	.2 .02 1	50 2.18 76	.4 .01 1	12 .13 15	23 .38 13	67 1.39 49	18 .51 18	8.5 .14 5	.07 19.0	--	182 200	33 0	3.8				
05/09/75	5121 5006	25C/24E-24H01	M 71 F 21 C 7.6 2900	400 22.45 11	3.2 .26 1	117 5.39 18	4.7 .12 1	0 .00 1	52 .05 3	668 4.74 34	623 17.57 62	16.4 .27 1	.04 37.0	--	1718 1755	1163 1119	1.5				
04/08/75	5017 5006	25C/24E-30H01	M 81 F 27 C 4.8 200	.1 1.00 1	.1 .01 1	45 1.96 99	-- .07 33	20 .67 33	48 .79 39	10 .21 10	11 .33 16	.9 .01 5	.12 --	--	113 112	0	24.1				
05/15/75	5121 5006	25C/24E-35H01	M 73 F 23 C 7.6 750	84 4.19 54	.4 .03 1	79 3.44 45	2.3 .00 1	0 .00 1	45 .74 18	202 4.21 54	11 2.39 30	10.2 .8 8	.01 26.0	--	501 529	212 174	2.4				
06/06/75	5121 5006	25C/24E-35H01	M 76 F 24 C 8.5 250	7.3 1.46 17	.1 .01 1	41 1.78 82	.7 .02 1	13 .45 19	26 .43 18	41 .85 35	11.3 .52 21	.07 21.0	--	--	152 167	19 0	4.1				
06/06/75	5121 5006	25C/24E-36G01	M 77 F 25 C 7.5 340	20 1.00 26	.1 .01 1	44 2.78 73	1.3 .03 1	0 .00 1	32 .52 14	64 1.33 35	62 1.77 21	12.1 .20 5	.06 19.0	--	240 256	51 25	3.9				
06/09/75	5121 5191	25C/25E-04C01	M 7.4 400	37 1.05 47	6.3 .52 13	34 1.48 37	4.4 .11 3	0 .00 1	141 2.31 53	18 .37 8	64 1.25 24	27.5 .44 10	.05 --	--	242 241	118 3	1.4				
06/09/75	5121 5191	25C/25E-21J01	M 7.8 2300	262 13.07 60	14 1.15 5	170 7.40 14	6.0 .15 1	0 .00 1	288 3.41 14	750 15.62 68	160 4.51 19	8.9 .14 1	.10 --	--	1480 1473	712 541	2.8				
06/09/75	5121 5191	25C/26E-04C02	M 7.9 530	27 1.39 7	4.5 .37 7	90 3.88 45	6.2 .16 3	0 .00 1	195 3.20 59	0 .83 15	33 .94 17	27.5 .44 8	.09 --	--	316 315	86 0	3.8				
06/08/75	5121 5191	26C/18E-18F03	M 7.6 2200	51 2.54 12	115 9.44 44	217 9.44 44	6.1 .16 1	0 .00 1	248 4.06 19	580 12.08 57	174 4.91 23	8.0 .13 1	2.50 --	--	1280 1276	601 397	3.9				
06/09/75	5121 5191	26C/18E-19H01	M 7.6 6000	230 11.40 17	360 24.57 37	710 30.89 46	14 .37 1	0 .00 1	208 3.41 8	1760 36.64 64	574 15.06 26	151 24.4 4	3.00 --	--	3810 3805	1809 1638	7.3				
06/09/75	5121 5191	26C/21E-14H01	M 7.7 6400	316 15.47 21	174 14.72 20	970 42.20 48	12 .31 1	0 .00 1	470 7.70 10	2200 46.00 59	842 24.31 11	3.1 .05 1	3.40 --	--	4770 4771	1511 1125	10.9				
03/31/75	5017 5006	26C/22E-10G02	M 8.4 340	4.3 .21 6	.3 .02 1	70 3.05 93	-- .40 12	12 .61 18	37 .87 18	42 1.43 26	50 .43 43	.4 .01 1	.23 --	--	200 198	11 0	8.8				
04/11/75	5000 1340	26C/22E-21H01	M 7.7 1130	1050 4.08 50	114 9.08 75	188 4.70 42	7.5 .19 2	0 .00 1	121 1.98 18	287 5.98 54	110 3.10 28	.1 .05 1	.60 --	--	758 795	320 221	2.6				
06/09/75	5121 5191	26C/22E-27H01	M 7.7 2900	136 6.79 27	2.7 17.84 1	410 .11 71	4.4 .11 1	0 .00 1	74 1.21 5	340 7.08 37	650 18.33 69	.9 .01 1	.65 --	--	1580 1581	351 290	9.5				
06/18/75	5121 5006	26C/23E-02H01	M 78 F 26 C 9.4 181	140 5.05	.0 .00 1	39 1.70 47	.4 .01 1	25 .84 1	32 .52 48	4.0 .10 38	8.1 .23 13	2.8 .05 3	.06 21.0	--	98 118	3 0	10.7				
02/03/75	5017 5006	26C/23E-04J01	M 71 F 22 C 7.9 1990	242 9.61	.7 .06 1	170 7.79 39	-- .00 1	0 .00 1	29 .48 2	145 3.02 15	583 16.45 82	7.1 .11 1	.02 --	--	1177 1171	608 583	3.2				
01/08/75	5017 5006	26C/23E-09D01	M 72 F 22 C 8.8 236	4.3 .21 10	.1 .01 1	44 1.91 90	-- .23 1	13 21	25 .73 21	35 37 20	13 .49 20	.4 .01 1	.03 --	--	130 124	11 0	5.7				

MINERAL ANALYSES OF GROUND WATER

10'

TABLE E-1 (Continued)

DATE TIME		SAMPLE LAB	TEMP	FIELD LABORATORY PH EC	MINERAL ANALYSES OF GROUND WATER										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					REM
					MINERAL CONSTITUENTS IN					MILLIEQUIVALENTS PER LITER					PERCENT REACTANCE VALUE										
										MILLIGRAMS PER LITER					PERCENT REACTANCE VALUE										
										CA	MG	NA	K	IN	CO3	HCO3	SO4	CL	NO3	8	F	TOS	TM	SAR	
CENTRAL VALLEY SAN JOAQUIN VALLEY																									
01/10/75	5017 5806	26C/24E-07R00	M 77 F 25 C	7.8	150	2.4 12	.0 .00	30 1.31 92	--	0 .00	75 1.23 87	6.0 1.2 9	1.8 .05 4	.9 .01 1	.04	--	79 78	6 0	5.3						
06/09/75	5121 5191	26S/24E-10P01	M 76 F 24 C	8.6	200	15 75 30	.1 .01	40 1.74 69	--	4.4 .89	54 23	8.6 .48 23	.9 .24 12	.9 .01 1	.16	--	129 129	38 0	2.8						
01/13/75	5017 5806	26S/24E-10R00	M 76 F 24 C	8.7	150	3.2 16 10	.0 .00	33 1.44 90	--	7.8 .26 16	43 .70 43	26 .54 33	2.8 .08 5	2.7 .04 2	.02	--	97 97	8 0	5.1						
06/09/75	5121 5191	24C/24E-12P01	M 76 F 24 C	9.0	230	15 75 31	.5 .04	36 1.67 2	1.0 .03	33 1.10 1	40 .86 25	24 .50 19	8.2 .23 9	6.6 .11 4	.18	--	145 144	40 0	2.5						
06/09/75	5121 5191	26C/24E-12R01	M 76 F 24 C	8.1	240	7.0 35 17	.3 .02	37 1.61 79	2.3 .06	0 .00	101 1.66 71	20 .42 18	6.2 .17 7	6.2 .10 4	.24	--	130 129	19 0	3.7						
01/13/75	5017 5806	26C/24E-13R01	M 76 F 24 C	8.4	180	6.0 30 19	.2 .02	35 1.52 1	--	5.1 .17 9	93 .87 47	30 .02 33	4.6 .13 7	4.5 .07 4	.03	--	112 111	16 0	3.8						
01/10/75	5017 5806	26C/24E-15N00	M 71 F 22 C	7.7	250	19 96 38	.4 .03	35 1.52 1	--	0 .00	64 1.05 41	42 .87 34	15 .44 17	11.2 .18 7	.08	--	156 155	50 0	2.2						
01/10/75	5017 5806	26C/24E-16J07	M 77 F 25 C	8.2	160	5.4 27 17	.0 .00	30 1.31 83	--	0 .00	22 .36 57	5.0 .10 16	3.5 .10 10	4.3 .07 11	.03	--	89 59	14 0	3.6						
01/10/75	5017 5806	26C/24E-16P00	M 75 F 24 C	7.8	140	2.7 13 10	.0 .00	28 1.22 90	--	0 .00	73 1.20 86	5.0 .10 7	2.5 .07 5	1.7 .04 2	.05	--	75 76	7 0	4.7						
01/10/75	5017 5806	26C/24E-16N02	M 76 F 24 C	8.1	150	3.4 14 13	.1 .01	29 1.26 1	--	0 .00	74 1.21 82	5.0 .10 7	4.6 .13 9	2.6 .04 3	.07	--	81 82	10 0	4.0						
01/10/75	5017 5806	26C/24E-17M00	M 76 F 24 C	8.4	150	4.3 21 14	.0 .00	30 1.31 86	--	9.9 .33 22	52 .85 56	6.0 .12 8	2.6 .04 12	3	.02	--	85 85	11 0	4.0						
01/10/75	5017 5806	26C/24E-18H00	M 77 F 25 C	8.2	150	2.1 10 6	.0 .00	33 1.44 94	--	4.2 .14 9	58 .95 61	21 .44 28	1.1 .03 2	.9 .01 1	.02	--	92 91	5 0	6.3						
01/15/75	5017 5806	26C/24E-19M00	M 77 F 25 C	8.7	190	8.0 40 22	.1 .01	32 1.39 1	--	12 .43 23	33 .54 30	14 .29 16	17 .50 27	4.3 .07 4	.02	--	107 105	21 0	3.1						
01/15/75	5017 5806	26C/24E-20C00	M 77 F 25 C	8.6	150	3.8 19 13	.1 .01	30 1.31 1	--	10 .34 23	43 .70 47	7.0 .15 10	9.2 .26 17	2.6 .04 3	.05	--	85 84	10 0	4.1						
01/14/75	5017 5806	26S/24E-21M00	M 77 F 25 C	8.7	130	2.8 14 10	.0 .00	28 1.22 90	--	15 .51 37	36 .62 45	7.0 .15 11	2.1 .06 4	2.6 .04 3	.01	--	77 76	7 0	4.0						
01/14/75	5017 5806	26C/24E-21R00	M 76 F 24 C	8.3	130	3.3 18 12	.0 .00	27 1.17 88	--	8.7 .29 20	56 .92 63	7.0 .15 10	1.8 .05 3	2.6 .04 3	.03	--	76 76	6 0	4.1						
01/14/75	5017 5806	26S/24E-22F00	M 75 F 24 C	8.0	160	6.8 34 23	.2 .02	26 1.13 1	--	1.8 .06 4	56 .92 62	16 .33 22	5.3 .15 10	1.8 .03 2	.03	--	86 85	10 0	2.7						
03/26/75	5017 5806	26S/24E-23P01	M 73 F 23 C	8.6	180	6.1 30 18	.1 .01	31 1.35 1	--	7.8 .26 15	35 .57 34	19 .40 24	9.6 .27 14	11.6 .19 11	.26	--	104 103	15 0	3.4						
05/14/75	5121 5806	26S/24E-23R00	M 78 F 26 C	8.0	190	8.0 40 21	.1 .01	34 1.48 1	1.4 .04	0 .00	58 .95 50	25 .52 27	11 .31 16	8.3 .13 7	.01	--	117 130	21 0	3.3						
04/14/75	5017 5806	26C/24E-27P01	M 76 F 24 C	8.4	190	9.0 45 25	.4 .03	31 1.35 2	--	13 .44 23	35 .57 30	19 .23 23	1.9 .04 2	.03	.01	--	114 107	24 0	2.7						

TABLE E-1 (Continued)

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PM EC	MINERAL ANALYSES OF GROUND WATER										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					REH
				MINERAL CONSTITUENTS IN					PERCENT REACTANCE VALUE					8	F	TOS SUM	TN NCH	S&P						
				CA	MG	NA	K	CO3	HCO3	504	CL	NO3												
CENTRAL VALLEY SAN JOAQUIN VALLEY																								
01/16/75	5017 5006	26S/24E-28M80	M	76 24	F C	8.0	130	2.6 1.13 10	.0 .00	26 1.13 90	-- .00	0 1.11 8	.68 1.18 4	5.0 1.0 8	1.8 .05 4	2.6 .04 3	.03 --	-- 70 71	7 0	4.4				
01/15/75	5017 5006	26S/24E-30M80	M	75 24	F C	8.7	150	12 .01	.0 .00	-- --	-- --	6.9 .23 13	4.3 .70 39	3.4 .71 39	4.6 .13 7	1.8 .03 2	.02 --	-- 109 88	31 0		F S			
01/17/75	5017 5006	26S/24E-31N80	M	76 24	F C	8.5	150	4.7 .23 15	.0 .00	30 1.31 85	-- .38 24	.45 .74 12	10 .21 10	5.7 .43 4	4.3 .07 4	.02 --	-- 89 88	12 0	3.8					
06/09/75	5121 5191	26S/24E-33F01	M			8.7	190	10 .50 26	.5 .04 2	32 1.39 71	1.0 .03 2	13 .44 2	5.4 .89 38	17 .35 15	19 .56 24	5.3 .09 4	.12 --	-- 126 125	27 0	2.7	S			
06/09/75	5121 5191	26S/24E-34F01	M			8.6	220	7.0 .35 19	.1 .01 1	33 1.44 79	1.3 .03 2	13 .44 21	5.4 .89 4.3	18 .35 10	9.6 .07 13	4.9 .08 4	.27 --	-- 114 114	18 0	3.4	S			
06/09/75	5121 5191	26S/24E-34P01	M			8.2	210	11 .55 26	.1 .01 2	35 1.52 72	1.7 .04 2	6.6 .22 10	5.4 .89 4.7	21 .44 20	17 .56 23	8.0 .13 6	.04 --	-- 128 128	20 0	2.9				
05/15/75	5121 5191	26S/25E-08F01	M			8.5	210	11 .55 29	.7 .06 3	28 1.22 65	1.5 .04 2	19 .46 30	5.4 .89 4.1	16 .33 15	7.5 .21 10	6.2 .10 5	.17 --	-- 118 117	30 0	2.2				
06/06/75	5121 5191					8.5	210	15 .75 37	.6 .05 2	28 1.22 60	1.2 .03 1	26 .88 37	18 .44 15	4.8 .14 6	7.1 .11 5	.17 --	-- 128 128	40 0	1.9		S			
05/09/75	5121 5006	26S/25E-11M01	M	77 25	F C	8.6	150	3.5 .17 11	.0 .00	30 1.31 87	1.0 .03 2	12 .43 29	3.2 .52 35	14 .29 19	7.1 .05 13	3.1 .65 5	.01 --	-- 88 102	9 0	4.4				
06/09/75	5121 5191	26S/25E-31M01	M			7.7	280	21 1.05 38	1.5 .12 4	34 1.48 54	3.0 .08 3	0 1.75 65	107 .35 13	17 .28 10	9.9 .31 12	19.0 .05 12	.13 --	-- 159 158	59 0	1.9				
06/09/75	5121 5191	26S/25E-31P01	M			7.6	220	20 1.00 39	1.4 .12 5	32 1.39 54	2.8 .07 3	0 1.87 57	87 .43 20	24 .50 14	9.9 .31 41	19.5 .05 25	.19 --	-- 153 153	56 0	1.9				
06/09/75	5121 5191	26S/26E-02A02	M			7.7	1000	22 1.10 11	.9 .07 1	192 8.35 85	12 .33 3	0 1.00 40	289 .474 38	215 .44 38	87 .24 21	5.3 .09 1	.78 --	-- 681 678	59 0	10.9	S			
06/09/75	5121 5191	26S/26E-06H02	M			7.5	1340	103 5.14 41	7.2 .59 5	153 8.66 53	7.6 .19 2	0 1.98 14	121 .573 41	275 3.55 25	126 2.70 20	173 .09 7	.09 --	-- 905 904	267 188	3.9	S			
06/09/75	5121 5191	26S/26E-30P01	M			8.0	200	16 .80 43	.2 .02 1	23 1.00 53	2.1 .05 3	6.6 .22 11	7.1 .42 59	17 .35 8	5.8 .16 5	7.0 .11 5	.11 --	-- 115 114	41 0	1.6	S			
06/09/75	5121 5191	27S/22E-06M01	M			7.0	3600	198 9.88 25	.60 .493 12	580 25.23 63	9.1 .23 1	34 1.14 3	396 6.49 17	800 16.86 44	463 13.02 36	3.1 .05 1	3.20 --	-- 2388 2385	741 359	9.3	S			
04/11/75	5050 0930	27S/22E-11L02	M	64 18	F C	7.6 7.4	6000 755	30 1.50 23	6.8 .56 9	102 4.44 88	.9 .02 0	0 1.03 15	63 2.33 35	112 3.38 50	120 3.06 50	.1 .00 0	.20 --	-- 434 403	103 52	4.4	F S			
04/11/75	5050 1030	27S/22E-13P01	M	77 25	F C	8.4 7.7	4500 5210	144 7.19 14	22 1.81 3	1000 43.50 83	2.2 .06 0	0 3.88 7	237 17.36 33	834 30.46 58	1080 30.46 1	10.0 .48 1	3.10 --	-- 3300 3232	449 256	20.5				
06/12/75	5050 0600	27S/22E-14P01	M	68 20	F C	7.4 8.0	17500 18900	494 24.65 11	54 4.44 2	4320 187.92 87	7.2 .18 0	0 4.20 2	256 16.86 37	3770 17.36 36	4730 30.46 62	17.0 .48 1	8.30 --	-- 13600 13526	1450 1245	49.3	E			
04/10/75	5050 1045	27S/22E-14P02	M	68 20	F C	8.4 8.0	18000 21200	330 16.47 7	67 5.51224 2	5160 224.46 91	6.1 .16 0	0 5.13 2	313 16.86 39	4650 17.36 59	5200 30.46 62	.1 .00 0	12.0 --	-- 15000 15579	1100 843	67.7	E			
04/10/75	5050 1045	27S/22E-14P03	M			7.0 7.9	16000 19400	595 29.69 13	.60 5.67190 3	4380 190.53 84	-- .00	0 3.64 2	222 15.28 97	-- 152.28 97	5400 30.46 55	-- .00	-- --	-- --	1770 1587	45.3				

TABLE E-1 (Continued)

DATE TIME		SAMPLER LAB	TEMP	FIELD LABORATORY PW	EC	MINERAL ANALYSES OF GROUND WATER										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					REMARKS					
						MINERAL CONSTITUENTS IN										PERCENT REACTANCE VALUE					0 F										
																PERCENT REACTANCE VALUE					0 F						0 F				
																CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3			0	5102	TOS SUM	NM	SAR
CENTRAL VALLEY SAN JOAQUIN VALLEY																															
04/10/75	275/22E-14804	M				8.0	19000	353	81	6350	--	0	343	--	6940	24.0	--	--	1210		X										
1140	5050					8.1	24800	17.61	6	6.86276	23	.00	5.62		195.71	.39	--	--	933	79.3	S										
04/10/75	275/22E-14805	M				7.8	17000	690	88	3870	--	0	202	--	4840	49.0	--	--	2080		S										
1315	5050					7.9	18500	34.43	16	7.24168	35	.00	3.31		136.49	.79	--	--	1920	36.9											
04/10/75	275/22E-14806	M				7.9	17000	495	69	4490	--	0	294	--	4940	.3	--	--	1520		S										
0955	5050					8.0	19700	24.70	11	5.67195	32	.00	4.82		139.31	.00	--	--	1279	50.1											
03/10/75	275/22E-34901	M				76	F		38	1.4	320	--	0	44	111	458	5.0	.51	--	961	101										
	5017					24	C	7.9	1600	1.90	.12	.00	.72	4	14	81	.08	--	956	65	13.9										
01/21/75	275/23E-01800	M				75	F		8.4	.01	41	--	7.8	35	47	13	3.4	.03	--	140	23										
	5017					24	C	8.5	230	.01	1.78		.26	.57	.98	.37	.05	--	139	0	3.8										
	5806								20		80		12	26	44	17	2														
04/18/75	275/23E-01801	M				77	F		10	.01	49	--	16	27	49	20	6.6	.31	--	166	26										
	5017					25	C	9.2	260	.50	2.13		.54	.44	1.02	.57	.11	--	165	0	4.2										
	5806								19		81		20	16	38	21	4														
01/21/75	275/23E-02400	M				78	F		2.0	.00	34	--	18	47	5.0	1.8	2.6	.03	--	89	5										
	5017					26	C	9.0	150	.10	1.48		.62	.77	10	.05	.04	--	87	0	6.6										
	5806								.6		94		39	40	6	3	3														
05/12/75	275/23E-02401	M				78	F		7.0	.00	42	1.1	11	44	20	18	1.1	.01	--	130	18										
	5121					26	C	8.7	210	.35	1.83	.03	.33	17	33	26	23	.02	18.0	148	0	4.4									
	5806								16		81		17	33	26	23	1														
01/21/75	275/23E-03400	M				77	F		2.3	.00	36	--	18	42	13	4.2	.9	.04	--	96	6										
	5017					25	C	8.9	170	.11	1.57		.60	.69	.27	.12	.01	--	95	0	6.5										
	5806								7		93		36	.41	16	7	1														
01/21/75	275/23E-03401	M				77	F		.15	.03	75	--	10	43	102	29	3.4	.10	--	250	39										
	5017					25	C	8.5	400	.15	3.76		.34	.70	21	.84	.05	--	257	0	5.2										
	5806								.19		81		8	17	52	21	1														
01/21/75	275/23E-04400	M				77	F		.25	.02	116	--	10	52	176	50	5.2	.15	--	412	64										
	5017					25	C	8.5	610	1.27	2.50		.34	.95	3.66	1.42	.08	--	409	5	6.3										
	5806								.29		80		5	13	58	22	1														
01/21/75	275/23E-05401	M							163	1.5	940	--	0	37	85	1600	2.6	1.40	--	2877	414										
	5017					7.4	5100	183	.17	12	40.89		.00	.61	1	4	.95	--	2872	382	20.1										
	5806										83																				
06/06/75	275/23E-14800	M				77	F		.90	.09	260	2.6	0	135	400	184	12.2	.52	--	1017	229										
	5121					25	C	7.7	1570	4.49	11.31	.07	.00	2.21	8.33	5.20	.02	8.0	1025	118	7.5										
	5806								28		71			14	52	33	1														
06/09/75	275/23E-14802	M							148	1.1	385	3.0	0	124	698	259	25.5	.87	--	1582	375										
	5121					7.8	2500	7.39	.30	.09	16.75	.08	.00	2.03	14.93	7.31	.41	14.0	1596	273	8.7										
	5806								26		69			8	60	30	2														
02/26/75	275/23E-16400	M				74	F		.26	.05	240	--	0	47	37	366	.5	.55	--	699	67										
	5017					26	C	7.4	1200	1.30	10.44		.00	.77	.77	10.34	.01	--	694	29	12.8										
	5806								11		89			.6	6	.87															
05/15/75	275/23E-18400	M							46	.04	350	4.5	0	.48	30	575	.5	.13	--	1031	117										
	5121					7.5	1790	2.30	.13	.04	15.23	.12	.00	.74	.02	16.22	.01	9.0	1040	78	14.1										
	5806										86			4	4	.92															
07/19/75	275/23E-19401	M				72	F	7.2	4230	129	.17	.00	394	658	982	59.0	2.80	--	3030	393											
	5050					22	C	7.8	4910	6.44	1.40	.05	.00	6.29	13.70	27.69	.95	--	2938	78	19.8										
	5050								14		83			13	28	57	2				S										
04/10/75	275/23E-19802	M				66	F	8.0	5000	121	.25	.00	482	709	1170	36.0	3.20	--	3430	486											
	5050					19	C	7.9	5550	6.44	2.14	.00	.00	14.76	32.99	.58	--	--	3424	10	24.2										
	5050								11		86			14	26	59	1														
04/10/75	275/23E-19803	M				8.0	4500	114	.26	940	--	0	294	--	1170	70.0	--	--	190												
	5050					8.0	4950	5.69	2.14	40.89	.00	.00	4.82	--	32.99	1.13	--	--	151	20.7	S										
	5050								12		84			12		.85	.3														
04/10/75	275/23E-19804	M				8.0	4350	82	.23	1080	--	0	273	--	1110	69.0	--	--	799												
	5050					8.1	4950	4.09	1.09	43.50	.00	.00	4.47	--	31.30	1.11	--	--	76	25.2	S										

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																									
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PM	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE										REMARKS
					CA	MG	NA	K	CO3	NO3	SO4	CL	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	NO3	
CENTRAL VALLEY SAN JOAQUIN VALLEY																									
04/10/75	5150	27C/23E-19H05	M		8.0	4200	67	15	988	--	0	365	--	1000	34.0	--	--								
1435	5090				8.0	4710	3.3	7	1.23	42.98		.00	5.98	17	28.20	.55	2					228	0	28.4	
																								5	
04/10/75	5050	27C/23E-19H06	M		8.0	4500	98	20	912	--	0	284	--	1030	64.0	--	--								
1510	5090				7.9	4750	4.89	1.64	39.67		.00	4.05	--	29.05	1.03							329	94	21.9	
																								5	
04/10/75	5050	27C/23E-19H07	M		8.0	5000	117	26	1160	--	0	404	--	1230	48.0	--	--								
1535	5090				7.9	5740	5.84	2.14	50.46		.00	6.62	--	34.69	.77							399	68	25.3	
																								5	
04/11/75	5050	27C/23E-20J01	M		66	F	7.6	6000	367	20	1220	2.0	0	363	2390	854	72.0	4.40	--	5020	999				
1120	5090				19	C	7.7	6410	18.31	1.64	53.17	.05	.00	5.95	49.76	17.03	1.16	--	4858	701	16.8				
05/10/75	5121	27C/23E-25C00	M		76	F			92	.8	260	4.4	0	89	490	146	10.6	.44	--	1055	233				
5806					24	C	7.4	1610	4.59	.07	11.31	.11	.00	1.46	10.20	4.13	.27	12.0	1067	160	7.4				
03/06/75	5017	27C/23E-27J01	M		77	F			42	.7	250	--	0	117	276	188	10.8	.91	--	831	108				
5806					25	C	7.8	1290	2.10	.06	10.88	.83	.00	1.92	5.75	5.31	.17	--	826	12	10.5				
05/10/75	5121	27C/23E-28A00	M		76	F			23	.0	110	1.6	12	25	152	66	5.2	.01	--	383	58				
5806					24	C	8.6	590	1.15	.00	4.79	.04	.43	.41	3.16	1.45	.08	11.0	395	16	6.3				
04/11/75	5050	27C/23E-34C01	M		7.6	2200	17	2.1	547	.7	0	764	254	233	97.0	3.10	--	1630	51						
1215	5090				8.3	2540	.85	3	17	24.66	.02	.00	12.52	5.37	6.57	1.56	--	1554	0	34.5					
04/23/75	5050	27C/23E-36A02	M						51	.0	170	.9	0	64	298	74	11.0	.68	--	532	123				
1215	5090				8.1	827	2.54		33	.00	5.22	.02	.00	1.05	4.33	2.09	.18	--	497	75	4.8				
06/05/75	5121	27C/24E-06A00	M		77	F			4.2	.1	14	.4	19	23	15	10	4.7	.06	--	100	11				
5806					25	C	8.8	170	.21	.01	1.44	.01	.05	.38	.31	.29	.08	17.0	117	0	4.5				
01/21/75	5017	27C/24E-06A01	M		76	F			5.6	.1	32	--	0.49	47	12	13	3.4	.02	--	97	14				
5806					24	C	8.4	170	.28	.01	1.19		.23	.77	.25	.39	.05	--	97	0	3.7				
06/05/75	5121	27C/24E-06A01	M		77	F			3.0	.1	32	.1	18	23	12	9.6	3.7	.04	--	90	8				
5806					25	C			.15	.01	1.39	.00	.00	.38	.24	16	17	15.0	105	0	5.0				
05/22/75	5121	27C/24E-06A00	M		76	F			4.3	.0	28	.9	18	45	5.0	2.0	1.1	.01	--	80	11				
5806					24	C	8.8	140	.21	.00	1.22	.02	.01	.74	.10	.46	.02	12.0	94	0	3.7				
06/09/75	5121	27C/24E-16P01	M						13	.1	38	1.1	19	54	18	13	6.6	.34	--	137	33				
5191					8.9	220	.65	.01	1.65	.03	.66	.89	.37	.37	11	15	5	--	136	0	2.9				
03/05/75	5017	27C/24E-19H00	M		75	F			2.0	.0	36	--	21	29	5.0	10	2.5	.03	--	89	5				
5806					24	C	9.1	170	.10	.00	1.48	.10	.72	.48	.10	.29	.04	--	90	0	6.6				
03/18/75	5017	27C/24E-27H01	M		73	F			2.4	.2	32	--	0	.68	23	34	16.6	.02	--	163	61				
5806					23	C	7.8	280	1.29	.02	1.19		.00	.98	.48	.96	.27	--	159	12	1.8				
01/28/75	5017	27C/24E-27H00	M		74	F			26	.3	32	--	0	.69	34	26	13.0	.05	--	169	67				
5806					23	C	7.7	280	1.32	.02	1.19		.00	1.13	.71	.76	.21	--	167	11	1.7				
01/28/75	5017	27C/24E-28A00	M		75	F			4.0	.1	35	--	0	.73	5.0	23	2.6	.04	--	113	23				
5806					24	C	8.2	280	.45	.01	1.52	.10	.00	1.20	.10	.45	.04	--	111	0	3.2				
01/28/75	5017	27C/24E-28H00	M		75	F			4.3	.0	30	--	0.0	56	6.0	5.7	2.6	.03	--	87	11				
5806					24	C	8.3	160	.21	.00	1.11		.30	.92	.12	.16	.04	--	85	0	4.0				
01/28/75	5017	27C/24E-28H00	M		75	F			14	.1	35	--	0	50	31	21	5.2	.04	--	138	37				
5806					24	C	7.4	240	.72	.01	1.52		.00	.45	.85	.62	.08	--	136	0	2.5				

MINERAL ANALYSES OF GROUND WATER

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TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					REMARKS
					PERCENT REACTANCE VALUE										PERCENT REACTANCE VALUE					PERCENT REACTANCE VALUE					
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	R	F	TDS	TH	SAR	NCM	SAR					
CENTRAL VALLEY SAN JOAQUIN VALLEY																									
04/08/75	5617 5806	77 25	F C	8.6	260	11	.1	.45	--	7.8	.48	18	.45	1.9	.14	--	152	28							
						.55	.01	1.96	.26	.66	.37	1.27	.03	--	149	0	3.7								
05/10/75	5121 5806	78 26	F C	8.2	180	.40	.0	.34	.9	0	.54	14	1.8	.5	.01	--	99	10							
						.20	.00	1.48	.02	.80	.09	.29	.51	.01	11.0	109	0	4.7							
04/21/75	5617 5806	78 26	F C	9.0	140	.01	.0	.35	--	12	.33	9.0	1.8	.6	.17	--	89								
						.00	.10	1.62	.43	.54	.10	.52	.01	--	88	0	30.5								
06/20/75	5121 5191	7.3	R	800	100	15	.45	.8	0	.67	190	59	75.3	.11	--	529	311								
					.40	1.23	1.30	.15	.00	1.10	3.96	1.66	1.21	--	523	256	1.1								
06/09/75	5121 5191	8.1	1000	.87	.6	.70	.4	0	.94	165	39	63.1	.09	--	473	244									
				.43	.54	3.05	.11	.00	1.54	3.44	1.12	.86	--	472	167	1.9									
06/09/75	5121 5191	8.1	350	32	1.1	.47	3.3	0	.74	.76	31	94.8	.18	--	246	84									
				1.80	.09	2.04	.00	.00	1.21	1.46	.87	.40	--	246	24	2.2									
06/20/75	5121 5191	7.0	1760	200	.70	.83	7.0	0	.94	.450	162	101	.11	--	1020	623									
				.91	2.47	3.61	.18	.00	1.94	4.37	2.88	1.83	--	1019	546	1.4									
06/09/75	5121 5191	7.4	2700	240	.63	131	5.8	0	.74	.408	148	31.0	.04	--	1060	645									
				.66	.52	5.70	.15	.00	1.21	.444	5.30	.50	--	1055	585	2.2									
06/09/75	5121 5191	7.7	1360	122	1.7	119	4.7	0	.67	.207	260	22.1	.15	--	503	312									
				6.09	.14	5.18	.12	.00	1.10	4.31	5.64	.36	--	710	257	2.9									
06/09/75	5121 5191	8.5	380	.80	.1	.63	.7	.9	.67	.30	.43	.5	.58	--	173	20									
				.40	.01	2.74	.02	.03	1.10	.06	1.80	.01	--	174	0	6.1									
06/20/75	5121 5191	7.4	760	90	.45	.43	5.0	0	.67	.204	73	25.7	.10	--	511	243									
				.58	.37	2.74	.13	.00	1.10	4.25	2.77	.41	--	499	188	1.8									
06/20/75	5121 5191	7.4	440	40	1.8	.50	3.5	0	.67	100	25	8.9	.14	--	268	107									
				.45	.15	2.18	.09	.00	1.10	2.08	.71	.14	--	262	53	2.1									
05/13/75	5121 5806	78 26	F C	7.8	880	28	.2	168	2.1	0	.35	26	270	.5	.01	--	513	71							
						1.44	.02	7.31	.05	.00	.97	.54	7.43	.01	10.0	523	43	8.7							
04/21/75	5617 5806	78 26	F C	7.7	2500	164	2.0	.49	--	0	.57	.50	793	.1	.36	--	1417	281							
						5.44	.16	18.62	.00	.93	1.04	22.36	.00	--	1410	234	11.1								
06/09/75	5121 5191	7.7	260	10	.1	.36	.9	0	.94	11	12	2.2	.21	--	119	25									
				.50	.01	1.57	.02	.00	1.54	.23	.34	.04	--	119	0	3.1									
05/13/75	5121 5806	77 25	F C	8.0	230	10	.0	.41	2.0	0	.42	.51	18	.42	.01	--	147	25							
						.50	.00	1.78	.05	.00	.69	1.06	.53	.07	7.0	155	0	3.6							
06/03/75	5121 5806	78 26	F C	7.8	690	27	.1	125	2.1	0	.44	.74	159	1.1	.01	--	412	68							
						1.35	.01	5.44	.05	.00	.79	1.54	4.49	.02	9.0	421	29	6.6							
06/09/75	5121 5191	7.5	840	22	.2	129	1.2	0	.67	.85	160	4.9	.33	--	437	56									
				1.10	.02	5.61	.03	.00	1.10	1.77	.451	.68	--	436	1	7.5									
03/25/75	5617 5806	71 22	F C	8.7	240	.80	.0	.43	--	6.0	.33	37	2.4	.42	.33	--	142	20							
						.40	.00	1.87	.26	.54	.77	.70	.87	--	140	0	4.2								
05/13/75	5121 5806	74 23	F C	7.7	220	.40	.0	.39	1.1	0	.51	.43	11	7.3	.01	--	136	23							
						.40	.00	1.70	.07	.00	.84	.90	.32	.12	10.0	146	0	3.6							
06/09/75	5121 5806	7.7	240	12	.5	.43	.9	0	.74	.18	29	6.6	.21	--	147	32									
				.60	.04	1.87	.02	.00	1.21	.37	.63	.11	--	147	0	3.3									

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTIVE VALUE				MILLIGRAMS PER LITER					REMARKS		
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	B	F	TDS SUM	TM NCH	SAH			
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
03/25/75	245/24E-19A01 S017 S000	M 7.0 24	F 7.9	510	12.00 12	.02	105	--	0	1.03	5.0	125	.5	.37	--	299	31	0	0.2	
06/09/75	245/24E-19A01 S121 S191	M 7.7		370	4.0 12	.01	74	.5	0	67	13	98	1.8	.18	--	230	23	0	6.7	S
06/09/75	245/24E-23H01 S121 S191	M 7.5		260	8.0 16	.01	46	.9	0	67	34	13	29.2	.24	--	166	20	0	4.4	S
06/09/75	245/24E-24F01 S121 S191	M 7.5		250	12 21	.01	92	1.0	0	60	55	22	15.5	.18	--	188	30	0	4.1	E
06/09/75	245/24E-24H01 S121 S191	M 7.5		480	25 10	.03	47	1.9	0	67	103	50	4.4	.13	--	285	64	9	3.7	S
06/09/75	245/24E-30A00 S121 S191	M 7.6		1160	106 2.29	.06	103	4.0	0	362	212	51	2.2	.26	--	642	313	65	2.5	
06/09/75	245/25E-03H01 S121 S191	M 8.0		350	35 1.75	.07	44	2.4	0	67	57	36	34.5	.13	--	244	91	36	2.0	
06/09/75	245/25E-05A02 S121 S191	M 7.5		440	57 47	.05	70	3.4	--	94	108	62	35.4	.12	--	405	144		2.5	
06/09/75	245/25E-06H02 S121 S191	M 7.5		460	89 4.44	.04	2.1	5.0	0	67	113	1.7	8.9	.29	--	407	231	176	1.4	S
06/09/75	245/25E-10H02 S121 S191	M 8.1		260	25 1.25	.03	34	1.7	0	68	19	24	1.3	.17	--	140	64	8	1.9	S
06/09/75	245/25E-19H01 S121 S191	M 7.7		310	27 1.35	.02	46	1.8	0	11	55	24	15.9	.30	--	224	69	60	2.4	E T
06/09/75	245/25E-23A01 S121 S191	M 7.5		440	59 2.94	.04	1.9	3.8	0	67	95	75	17.7	.10	--	342	155		1.9	
06/09/75	245/25E-24A01 S121 S191	M 8.0		340	43 55	.05	75	2.3	0	108	35	12	20.4	.22	--	234	118	0	1.4	S
06/09/75	245/25E-28A01 S121 S191	M 8.3		340	34 53	.04	71	1.5	0	161	10	6.9	5.8	.14	--	172	92		1.4	
06/09/75	245/25E-30A00 S121 S191	M 8.9		230	22 1.10	.02	54	1.3	0	74	65	27	16.3	.16	--	224	56	0	3.1	E C
06/09/75	245/25E-33H01 S121 S191	M 7.7		720	72 3.6	.03	70	3.2	0	201	100	55	23.5	.41	--	426	185		2.2	S
06/09/75	245/25E-36A01 S121 S191	M 8.1		560	64 3.2	.03	75	2.4	0	156	68	24	34.1	.16	--	320	198		1.1	
06/09/75	245/26E-02L01 S121 S191	M 7.5		430	35 1.75	.07	73	3.7	0	74	110	53	21.7	.21	--	335	91		3.3	S
06/09/75	245/26E-06A01 S121 S191	M 7.4		400	72 49	.03	13	5.5	0	121	230	26	31.9	.39	--	506	241		1.8	S
06/09/75	245/26E-07H01 S121 S191	M 7.6		400	43 2.15	.03	2.0	3.3	0	74	77	62	21.3	.21	--	260	116		1.3	S

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																																			
DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT EQUIVALENTS PER LITER					MILLIGRAMS PER LITER					REMARKS										
					Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	Fe	SiO ₂	TDS	TH	ACH	SAR																
CENTRAL VALLEY SAN JOAQUIN VALLEY																																			
06/20/75	295/26E-08P01 5191	M			7.4	760	100 4.99 66	9.5 53 7	45 1.96 26	4.7 12 2	0 0.00	1.7 23	145 302	78 222	43.0 69 9	.33	--	487 476	276 169	1.2															
06/09/75	295/26E-16P01 5191	M			7.9	440	51 2.54 6	3.2 2.5 6	35 1.52 6	3.4 4.09 2	0 0.00	65 33	70 35	34 23	24.8 9	.17	--	265 264	141 71	1.3															
06/09/75	295/26E-16Q01 5121 5191	M			7.7	730	72 3.59 59	5.2 4.3 7	46 2.00 13	3.0 10 2	0 0.00	114 31	120 41	41 19	36.8 10	.20	--	383 382	201 108	1.4															
06/09/75	295/26E-17H01 5121 5191	M			8.0	1060	104 5.19 64	10 4.6 10	52 2.26 10	4.1 4.88 2.7	0 0.00	121 1.78	120 24	110 3.10	17.6 61 7	.18	--	499 498	303 204	1.3															
06/20/75	295/26E-22F01 5121 5191	M			7.5	720	50 2.74 11	7.0 5.8 11	42 1.83 35	4.3 4.88 2	0 0.00	121 1.48	110 33	37 1.06	16.8 150	.26	--	379 352	166 67	1.4															
06/20/75	295/26E-28H01 5121 5191	M			7.6	450	50 2.50 50	4.4 3.6 8	35 1.62 14	3.1 4.09 2	0 0.00	101 1.68	70 1.46	37 22	15.9 12	.28	--	287 286	143 60	1.3															
06/09/75	295/26E-32N03 5121 5191	M			7.9	220	16 4.0 45	3.5 2.8 15	18 7.8 34	1.0 4.3 2	0 0.00	81 1.33	9.0 19	5.2 1.5	1.3 87 1	.11	--	96 96	59 0	1.0															
06/26/75	295/27E-07J01 5806	M			7.7	550	45 2.25 19	2 4.02 54	78 3.34 4.88	3.2 4.4 2	0 0.00	48 74	158 129	44 1.25	13.0 621	.09	--	372 377	113 74	3.2															
02/12/75	295/27E-23H01 5701	M			6.0	F	25 1.25 51	4.0 3.3 13	19 4.3 14	1.7 4.4 2	.5 0.2	1.1 1.6	14 29	17 48	3.0 45 2	--	.1	160 160	80 0	0.9															
10/09/74	295/27E-24N01 5701	M			6.3	F	25 1.25 54	1.0 4.0 4	17 7.4 15	1.6 4.4 2	.1 0.00	41 68	13 12	13 17	4.0 3	--	.2	145 144	69 0	0.9															
03/24/75	295/27E-24N01 5701	M			6.2	F	22 1.10 51	3.0 4.5 12	18 7.8 16	1.4 4.4 2	.2 0.1	95 1.56	14 29	13 13	2.0 63 10	--	.1	144 143	70 0	1.0															
05/12/75	295/27E-250H2 5701	M			6.4	F	26 1.30 53	3.0 4.5 10	19 7.8 34	3.3 4.4 3	.4 0.1	1.2 1.67	15 31	13 37	6.0 110 15	.11	.1	162 162	78 0	0.9															
08/04/75	295/27E-25G01 5701	M			6.5	F	27 1.35 54	3.0 4.5 10	19 7.8 13	2.4 4.4 2	.3 0.1	1.09 1.79	16 33	12 34	4.0 66 2	--	.2	159 158	82 0	0.9															
01/13/75	295/27E-25R01 5701	M			6.5	F	24 1.45 53	5.0 4.1 15	19 4.3 30	1.6 4.4 4	.3 0.1	1.7 1.75	21 66	15 16	3.0 65 2	--	.2	168 169	92 5	0.9															
07/07/75	295/27E-26J01 5701	M			6.5	F	25 1.25 50	2.0 4.5 5	18 7.8 15	1.9 4.5 2	.6 0.2	94 1.54	15 31	12 34	1.0 62 1	--	.2	142 142	70 0	0.9															
08/04/75	295/27E-35A02 5701	M			6.8	F	22 1.10 54	2.0 4.5 8	17 7.4 36	2.1 4.5 2	.2 0.1	90 1.48	14 29	11 14	.0 60 15	--	.2	132 133	64 0	0.9															
03/24/75	295/27E-35E01 5701	M			6.5	F	26 1.30 51	5.0 4.1 16	19 4.3 12	1.3 4.4 2	.2 0.1	1.09 1.72	14 29	14 37	.0 60 16	--	.2	154 154	84 0	0.9															
08/04/75	295/27E-35G01 5701	M			6.7	F	23 1.15 52	3.0 4.5 11	18 7.8 35	1.9 4.5 2	.1 0.00	97 1.59	14 29	12 34	2.0 63 15	--	.2	151 142	72 0	0.9															
09/09/75	295/27E-36H01 5701	M			6.7	F	27 2.35 55	4.0 4.7 17	25 1.09 26	2.3 4.6 2	.1 0.00	137 2.25	27 53	46 31	6.0 10 2	--	.1	256 256	154 42	0.9															
10/18/74	295/27E-36K01 5701	M			6.5	F	29 1.45 55	4.0 4.5 12	19 7.8 11	2.0 4.5 2	.2 0.1	1.05 1.72	18 37	17 48	.0 60 19	--	.2	165 166	88 3	0.9															
08/04/75	295/27E-36L01 5701	M			6.6	F	30 1.50 53	5.0 4.1 13	20 4.3 17	2.1 4.5 2	.2 0.1	1.27 2.08	21 65	22 44	2.0 63 10	--	.2	187 187	96 0	0.9															

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					REMARKS
				CA	MG	NA	K	CO3	MCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCM	SAR	
CENTRAL VALLEY SAN JOAQUIN VALLEY																		
10/18/74	5701	29C/27E-36KE2	M	66	4.0	19	1.9	.2	117	17	15	.0	--	.+2	169	91	0.9	
	5701	14 C 7.4	25A	30	.33	.83	.05	.01	1.92	.35	.+2	.00	25.0		170	0		
03/24/75	5701	65 F 7.7	230	24	3.0	19	1.8	.3	95	16	15	2.0	--	.+3	156	72	1.0	
	5701	18 C 7.7	25A	12	1.20	.25	.83	.05	.01	1.56	.33	.+2	.03	28.0		156	0	
				32	11	.36	.2		66	14	18	1						
08/04/75	5701	29C/28E-16E1	M	66	3.0	19	1.9	.4	119	18	14	.0	--	.+1	178	92	0.9	
	5701	19 C 7.7	261	32	1.60	.25	.83	.05	.01	1.95	.37	.19	.00	20.0		187	0	
				59	.9	.70	.2		1.72	.14	.14							
02/12/75	5701	29C/28E-16H1	M	71	4.0	20	1.4	.7	106	37	25	2.0	.30	.+2	204	114	0.8	
	5701	22 C 8.0	330	1.40	.33	.87	.+4	.02	1.74	.77	.71	.03	23.0		204	24		
				81	11	.24	1	1	53	24	22	1						
02/18/75	5701	7. F	32A	39	4.0	21	1.5	.9	108	38	24	5.0	--	.+1	208	116	0.9	
	5701	21 C 8.1	32A	1.45	.33	.91	.+4	.03	1.74	.79	.68	.08	22.0		208	26		
				60	10	.28	1	1	52	24	20	2						
09/04/75	5701	29C/28E-1A0N1	M	74	3.0	23	2.2	.5	107	34	24	.0	--	.+1	195	102	1.0	
	5701	26 C 7.8	114	1.80	.25	1.00	.06	.02	1.75	.71	.+8	.00	20.0		195	14		
				58	.8	.72	.2		1.55	.22	.22							
07/07/75	5701	29C/28E-16R1	M	76	2.0	27	1.6	.8	89	33	18	2.0	--	.+2	168	76	1.4	
	5701	26 C 8.1	272	1.35	.16	1.17	.04	.03	1.44	.69	.51	.03	14.0		169	1		
				50	.6	.43	1	1	54	25	19	1						
08/04/75	5701	29C/28E-17R1	M	71	4.0	22	2.7	.6	106	42	42	.0	--	.+1	235	142	0.8	
	5701	21 C 7.9	400	2.30	.49	.96	.+7	.02	1.74	.87	1.18	.00	21.0		234	52		
				80	13	.25	.2		1.46	23	31							
01/13/75	5701	29C/28E-19J02	M	67	4.0	18	2.0	.3	97	16	12	2.0	--	.+1	150	78	0.9	
	5701	19 C 7.7	231	1.25	.33	.78	.05	.01	1.50	.33	.34	.03	24.0		151	0		
				54	.14	.32	.2		1.49	.14	15	1						
01/20/75	5701	29C/28E-19J03	M	67	4.0	17	1.2	.4	85	15	10	1.0	--	.+1	135	62	0.9	
	5701	21 C 7.8	197	1.00	.25	.74	.03	.01	1.39	.31	.28	.02	28.0		135	0		
				50	12	.37	1		69	15	14	1						
03/24/75	5701	29C/28E-19L1	M	65	4.0	18	2.0	.5	107	17	16	.0	--	.+2	165	86	0.9	
	5701	18 C 7.8	259	1.35	.33	.78	.05	.02	1.75	.35	.+5	.00	28.0		165	0		
				54	.33	.71	.2		1.68	14	18							
09/04/75	5701	29C/28E-19N02	M	68	4.0	20	2.8	.2	114	29	12	1.0	--	.+2	180	94	0.9	
	5701	26 C 7.4	27A	1.55	.33	.87	.+7	.01	1.87	.60	.34	.02	24.0		180	0		
				55	12	.11	.2		.86	21	12	1						
09/04/75	5701	29C/28E-19O1	M	66	2.0	18	2.1	.2	100	13	10	.0	--	.+1	137	70	0.9	
	5701	19 C 7.5	217	1.25	.16	.78	.05	.01	1.64	.27	.28	.00	18.0		137	0		
				56	.7	.15	.2		.75	12	13							
02/12/75	5701	29C/28E-20A01	M	73	4.0	25	1.4	.6	84	82	66	7.0	--	.+0	321	196	0.8	
	5701	23 C 8.1	941	3.29	.58	1.09	.05	.02	1.38	1.71	1.46	.11	23.0		320	124		
				82	12	.22	1		.27	34	37	2						
03/24/75	5701	29C/28E-21G02	M	72	7.0	27	2.1	.5	77	81	63	.0	--	.+1	337	206	0.8	
	5701	22 C 8.1	489	3.49	.58	1.17	.05	.02	1.26	1.09	2.34	.00	28.0		336	140		
				66	11	.22	1		24	32	44							
05/17/75	5701	29C/28E-20H01	M	76	4.0	19	2.0	.7	82	16	14	.0	--	.+1	140	60	1.1	
	5701	24 C 8.1	215	1.20	.00	.83	.05	.02	1.34	.33	.19	.00	24.0		140	0		
				58	.0	.40	.2	1	.64	16	19							
05/05/75	5701	29C/28E-20L1	M	72	4.0	25	1.9	.4	82	78	61	1.0	--	.+2	290	172	0.8	
	5701	22 C 7.9	496	3.09	.53	1.09	.05	.01	1.34	1.46	1.72	.02	24.0		290	104		
				68	.7	.24	1		1.29	32	38							
07/07/75	5701	29C/28E-21C1	M	77	2.0	23	1.3	.6	72	51	29	.0	--	.+1	196	102	1.0	
	5701	25 C 8.1	726	1.40	.10	1.00	.03	.02	1.18	1.08	.42	.00	16.0		196	43		
				81	.5	.32	1	1	.38	34	27							
07/07/75	5701	29C/28E-21O101	M	74	4.0	21	1.5	.3	85	39	34	.0	--	.+1	196	112	0.9	
	5701	24 C 7.7	327	2.05	.16	.91	.04	.01	1.39	.81	.96	.00	16.0		197	41		
				85	.5	.29	1		.44	26	36							
03/24/75	5701	29C/28E-21E1	M	76	7.0	18	1.2	.7	69	23	22	1.0	--	.+1	150	72	0.9	
	5701	24 C 8.2	23A	1.35	.08	.78	.+3	.02	1.13	.44	.+2	.02	22.0		150	14		
				60	.4	.15	1	1	.50	21	27	1						
05/05/75	5701	29C/28E-21G01	M	74	4.0	27	1.0	.0	49	27	26	1.0	--	.+2	142	50	1.7	
	5701	26 C	244	1.20	.00	1.17	.02	.03	.40	.56	.73	.00	16.0		143	9		
				.48	.53	.83	.03	.01	.37	.26	.34	1						

TABLE E-1 (Continued)

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PW EC	MINERAL ANALYSES OF GROUND WATER										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					REMARKS
					MINERAL CONSTITUENTS IN										PERCENT REACTIVE VALUE					SUM					
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		8	F	TOS	TM	SAR						
					CENTRAL VALLEY SAN JOAQUIN VALLEY																				
01/13/75	5701	29C/28E-21M01	M	76 F	24	8.0	275	1.55	31	2.0	19	.8	.5	67	40	23	.0	--	.2	172	88	0.9			
	5701			21 C	8	8.0	275	1.55	61	.16	.32	1	1	42	37	25	.00			22.0	171	30	0.9		
01/13/75	5701	29C/28E-29001	M	76 F	21	7.8	263	1.50	30	2.0	20	1.4	.4	94	22	20	.0	--	.1	166	84	1.0			
	5701			21 C	7	7.8	263	1.50	50	.16	.34	2	.01	1.54	46	18	.00			24.0	166	6	1.0		
06/04/75	5701	29C/28E-29401	M	76 F	21	8.2	190	1.4	10	.0	22	1.3	.8	74	15	12	.0	--	.1	118	44	1.4			
	5701			21 C	8	8.2	190	1.4	40	.00	.06	.03	.03	1.21	31	14	.00			13.0	118	0	1.4		
06/04/75	5701	29C/28E-29001	M	76 F	21	8.2	310	1.15	23	1.0	39	1.7	.8	74	63	18	.0	--	.1	192	62	2.2			
	5701			21 C	8	8.2	310	1.15	39	.08	1.70	.04	.03	1.21	131	.51	.00			9.0	192	0	2.2		
06/04/75	5701	29C/28E-29001	M	80 F	27	8.3	323	1.5	15	1.0	52	1.6	1.4	104	37	23	.0	--	.2	193	42	3.5			
	5701			27 C	8	8.3	323	1.5	24	.08	2.26	.04	.05	1.70	77	.65	.00			10.0	192	0	3.5		
09/09/75	5701	29C/28E-30A01	M	68 F	20	7.6	202	1.15	23	1.0	17	1.1	.2	90	14	8.0	4.0	--	.1	136	64	0.9			
	5701			20 C	7	7.6	202	1.15	50	.08	.74	.03	.01	1.64	29	.23	.06			22.0	135	0	0.9		
06/04/75	5701	29C/28E-30F02	M	66 F	19	7.5	320	1.90	30	4.0	22	2.0	.3	124	32	17	3.0	--	.2	201	112	0.9			
	5701			19 C	7	7.5	320	1.90	50	10	29	2		63	67	.48	.05			21.0	201	10	0.9		
07/07/75	5701	29C/28E-30G01	M	67 F	19	7.3	341	1.40	30	5.0	22	2.6	.2	127	36	10	5.0	--	.1	212	122	0.9			
	5701			19 C	7	7.3	341	1.40	56	14	.96	.07	.01	2.08	75	.51	.08			22.0	212	15	0.9		
07/07/75	5701	29C/28E-30H02	M	68 F	20	7.4	251	1.45	24	3.0	19	1.9	.4	102	24	13	2.0	--	.1	162	84	0.9			
	5701			20 C	7	7.4	251	1.45	56	10	.32	2	.01	1.67	50	19	.03			20.0	162	1	0.9		
11/11/74	5701	29C/28E-30K02	M	68 F	20	7.6	324	1.60	30	5.0	22	2.5	.3	126	25	10	1.0	--	.2	197	110	0.9			
	5701			20 C	7	7.6	324	1.60	50	13	.06	.06	.01	2.07	52	.51	.02			25.0	197	7	0.9		
05/05/75	5701	29C/28E-30L02	M	66 F	19	7.5	278	1.65	33	2.0	21	1.8	.2	112	23	13	.0	--	.1	173	90	1.0			
	5701			19 C	7	7.5	278	1.65	60	6	.33	2		68	18	14	.00			24.0	173	0	1.0		
06/04/75	5701	29C/28E-30M02	M	68 F	20	7.2	287	1.69	33	4.0	20	2.9	.1	124	24	13	1.0	--	.1	184	100	0.9			
	5701			20 C	7	7.2	287	1.69	53	11	.87	.07	.00	2.03	50	.37	.02			25.0	184	0	0.9		
08/04/75	5701	29C/28E-30N04	M	66 F	20	7.4	290	1.70	34	5.0	20	2.4	.2	122	25	14	5.0	--	.2	190	104	0.8			
	5701			20 C	7	7.4	290	1.70	56	13	.41	.06	.01	2.00	52	.39	.08			24.0	190	5	0.8		
06/04/75	5701	29C/28E-31B02	M	66 F	19	7.5	283	1.55	31	4.0	20	2.9	.3	119	20	14	2.0	--	.1	172	94	0.9			
	5701			19 C	7	7.5	283	1.55	55	12	.31	.07	.01	1.95	42	.39	.03			20.0	173	0	0.9		
06/04/75	5701	29C/28E-31R04	M	66 F	19	7.4	275	1.55	31	3.0	21	2.4	.5	121	21	13	3.0	--	.1	176	92	1.0			
	5701			19 C	7	7.4	275	1.55	59	9	.33	2	1	69	15	13	2			21.0	175	0	1.0		
05/05/75	5701	29C/28E-31F02	M	67 F	19	7.4	360	2.10	42	5.0	24	3.6	.2	139	28	21	4.0	--	.1	229	124	0.9			
	5701			19 C	7	7.4	360	2.10	50	11	.29	2		63	16	16	4			26.0	229	11	0.9		
01/13/75	5701	29C/28E-31G02	M	67 F	19	8.1	220	1.9	19	2.0	25	1.0	.6	87	18	13	2.0	--	.1	143	56	1.5			
	5701			19 C	8	8.1	220	1.9	43	.16	1.09	.03	.02	1.43	37	.17	.03			20.0	143	0	1.5		
03/13/75	5701	29C/28E-31H02	M	67 F	19	8.3	222	1.9	19	1.0	25	1.3	1.2	90	17	12	2.0	--	.1	144	54	1.5			
	5701			19 C	8	8.3	222	1.9	44	.08	1.09	.03	.04	1.44	35	.14	.03			21.0	144	0	1.5		
01/13/75	5701	29C/28E-31J02	M	68 F	20	7.9	255	1.15	23	3.0	25	2.2	.5	94	23	16	4.0	--	.2	167	70	1.3			
	5701			20 C	7	7.9	255	1.15	45	10	.43	2	1	60	19	16	2			24.0	167	0	1.3		
01/13/75	5701			--	--	--	--	--	--	--	--	--	--	--	--	--	--			.13	--	--	--		
08/04/75	5701	29C/28E-31K02	M	64 F	21	7.0	304	1.70	34	5.0	21	2.8	.1	120	28	17	3.0	--	.2	193	104	0.9			
	5701			21 C	7	7.0	304	1.70	55	13	.91	.07	.00	1.97	58	.48	.05			23.0	193	7	0.9		

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSES OF GROUND WATER																						
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REM
				Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	PERCENT REACTANCE VALUE	8	F	TDS	TH	5AR				
CENTRAL VALLEY SAN JOAQUIN VALLEY																						
03/24/75	5701 5701	66 14	F C	7.5	403	44 2.20 55	7.0 1.17 14	27 0.06 29	2.5 0.01 1	141 2.31 57	38 .79 19	24 .82 20	9.0 .15 4	--	+2 26.0	253 254	140 23	1.0				
06/04/75	5701 5701	71 21	F C	7.7	440	114 5.94 67	8.0 1.06 7	49 2.13 24	5.2 .13 1	70 1.15 13	268 5.58 61	80 2.26 25	5.0 .08 1	--	+1 14.0	583 583	332 272	1.2				
08/04/75	5701 5701	71 22	F C	7.7	917	120 6.24 67	13 1.07 11	42 1.83 20	5.0 .13 1	3 0.01 1	80 1.31 14	268 5.58 58	85 2.40 25	17.0 .27 3	--	+1 15.0	610 611	368 302	1.0			
07/07/75	5701 5701	71 21	F C	H.0	455	52 2.54 59	5.0 1.11 9	30 1.08 20	3.1 .08 2	6 0.02 1	91 1.49 34	73 1.52 34	46 1.30 29	7.0 1.1 2	--	+1 18.0	288 279	150 75	1.1			
08/04/75	5701 5701	71 22	F C	7.7	774	88 4.39 60	12 1.49 14	42 1.83 25	3.7 .08 1	4 0.01 1	121 1.38 27	155 3.23 44	66 1.06 25	19.0 .31 4	--	+1 21.0	467 467	268 170	1.1			
05/14/75	5701 5701	77 25	F C	7.7	2250	317 15.82 62	6.0 1.49 15	209 9.09 25	9.2 .24 1	1 0.00 1	26 1.3 2	815 16.97 65	275 7.76 29	71.0 1.15 4	--	+1 18.0	1732 1731	818 795	3.2			
05/05/75	5701 5701	78 26	F C	7.7	487	51 2.54 39	4.0 1.08 5	89 3.67 59	5.5 .14 2	4 0.01 1	119 1.95 30	115 2.39 37	70 1.97 31	8.0 .13 2	--	+1 19.0	416 416	128 29	3.4			
05/14/75	5701 5701	78 26	F C	7.7	675	50 2.50 38	3.0 1.25 4	83 3.61 46	5.5 .14 2	6 0.02 1	110 1.90 30	115 2.39 37	89 1.95 31	9.0 .15 2	--	+1 14.0	406 406	136 42	3.1			
06/09/75	5121 5191	50 8.4	F C	7.0	790	50 2.50 32	12 1.49 13	100 4.75 55	2.0 .05 1	0 0.00 1	207 3.39 44	135 2.81 37	51 1.40 14	4 .01 1	+40	--	455 453	174 5	3.3			
06/09/75	5121 5191	30 1.50 31	F C	7.1	570	30 1.50 31	4 1.03 1	76 3.31 68	1.3 .03 1	0 0.00 1	67 1.16 23	120 2.58 52	42 1.19 25	5 .01 1	+09	--	305 304	77 22	3.8			
06/09/75	5121 5191	30 1.50 31	F C	7.1	540	30 1.50 31	4 1.03 1	76 3.31 68	1.3 .03 1	0 0.00 1	67 1.16 23	120 2.58 52	42 1.19 25	5 .01 1	+26	--	336 335	169 97	1.6			
06/09/75	5121 5191	44 1.45 52	F C	8.1	450	44 2.45 52	1.7 1.14 3	46 2.80 83	1.9 .05 1	0 0.00 1	141 2.31 54	45 9.4 22	21 1.40 14	25.8 .46 11	+19	--	294 263	129 14	1.8			
06/09/75	5121 5191	15 1.75 32	F C	8.1	270	15 1.75 32	3 1.02 1	75 1.52 66	7 .02 1	0 0.00 1	94 1.54 75	10 2.1 13	9.6 1.40 2	2.7 .04 2	+04	--	120 120	39 0	2.4			
06/09/75	5121 5191	20 1.00 38	F C	8.1	250	20 1.00 38	1.5 1.12 5	78 1.42 57	6 .02 1	0 0.00 1	114 1.87 87	70 1.15 87	7.7 2.22 10	2.7 .04 2	+03	--	132 131	56 0	2.0			
06/09/75	5121 5191	40 1.26 30	F C	8.1	360	40 2.26 30	2 1.02 1	75 3.26 93	6 .02 1	0 0.00 1	67 1.16 32	60 1.40 4	76 2.17 64	5 .01 1	+56	--	197 197	11 0	9.9			
06/26/75	5121 5606	34 1.45 48	F C	7.6	740	34 1.45 48	1.4 1.12 3	77 1.61 47	2.0 .05 1	0 0.00 1	116 1.90 56	42 1.07 26	21 .81 18	1.9 .03 1	+15	--	197 212	88 0	1.7			
05/05/75	5701 5701	21 10	F C	7.9	707	21 1.05 51	1.0 1.01 4	70 1.6 43	1.6 .02 1	5 0.02 1	92 1.21 75	12 3.25 11	8.0 .23 11	0 .00 1	--	+1 24.0	134 133	58 0	1.2			
06/04/75	5701 5701	66 21	F C	7.1	600	66 3.34 50	10 1.70 14	39 1.11 28	4.3 .11 2	2 0.01 1	198 3.25 54	63 1.31 22	37 1.14 17	26.0 .42 7	--	+1 26.0	370 371	210 48	1.2			
07/07/75	5701 5701	66 15	F C	7.9	793	33 1.65 56	4.0 1.03 11	21 1.06 31	2.3 .02 2	6 0.02 1	123 2.02 67	25 1.52 17	15 1.30 14	3.0 .05 2	--	+2 18.0	183 162	100 0	0.9			
05/05/75	5701 5701	67 14	F C	7.4	394	42 2.10 52	6.0 1.19 12	72 1.39 34	3.7 .09 2	3 0.01 1	153 2.51 62	36 1.75 18	20 .23 4	14.0 .05 6	--	+1 26.0	255 255	130 4	1.2			

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER																							
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				REM
					PERCENT REACTANCE VALUE										PERCENT REACTANCE VALUE				PERCENT REACTANCE VALUE				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		B	F	TDS	TH	SAR				
CENTRAL VALLEY SAN JOAQUIN VALLEY																							
09/09/75	5701	30.5/27.0-11M01	M	65	F	7.0	378	43	8.0	21	2.2	.01	159	28	16	14.0	--	+1	236	142	0.8		
	5701		18	C	7.0		2.15	.66	.91	.06	.00	2.61	.58	.45	.23	6	25.0	235	10				
							57	17	24	2			67	15	12	6							
01/13/75	5701	30.5/27.0-32A02	M	65	F	7.6	267	28	4.0	20	2.6	.03	109	17	14	5.0	--	+2	169	88	0.9		
	5701		18	C	7.6		1.40	.33	.87	.07	.01	1.79	.35	.39	.08		24.0	168	0				
							52	12	33	3			68	13	15	3							
08/04/75	5701	30.5/27.0-02F01	M	67	F	7.2	317	34	6.0	22	2.4	.01	129	19	21	5.0	--	+2	193	108	0.9		
	5701		19	C	7.2		1.70	.49	.96	.06	.00	2.60	.40	.59	.08		24.0	193	10				
							53	15	30	2			65	13	19	3							
09/09/75	5701	30.5/27.0-02H01	M	67	F	7.0	374	43	6.0	23	2.3	.01	151	27	17	20.0	--	+1	240	134	0.9		
	5701		14	C	7.0		2.19	.44	1.00	.06	.00	2.47	.56	.48	.32		26.0	239	9				
							58	13	27	2			64	15	13	8							
10/09/74	5701	30.5/27.0-02P01	M	65	F	7.2	342	35	6.0	23	1.9	.01	115	23	23	14.0	--	+2	210	110	0.9		
	5701		18	C	7.2		1.75	.49	1.00	.05	.00	1.88	.44	.65	.23		28.0	211	18				
							53	15	30	2			58	15	20	7							
10/09/74	5701	30.5/27.0-11B01	M	65	F	7.2	391	34	7.0	27	2.4	.02	144	25	24	10.0	--	+2	235	126	1.0		
	5701		18	C	7.2		1.91	.59	1.17	.06	.01	2.36	.52	.58	.16		30.0	235	8				
							52	15	31	2			63	14	18	4							
02/12/75	5701	30.5/27.0-11002	M	65	F	7.9	288	24	3.0	18	1.6	.05	99	14	12	2.0	--	+2	147	72	0.9		
	5701		18	C	7.9		1.20	.25	.78	.04	.02	1.62	.29	.34	.03		23.0	147	0				
							53	11	14	2	1	70	13	15	1								
10/09/74	5701	30.5/27.0-11B01	M	66	F	7.1	454	45	10	30	2.8	.01	108	30	21	20.0	--	+1	282	154	1.1		
	5701		19	C	7.1		2.25	.62	1.31	.87	.00	2.75	.81	.59	.32		31.0	282	16				
							51	18	29	2			62	18	13	7							
10/07/74	5701	30.5/27.0-12L02	M						--	--	--	--	--	--	--	--	18	--	--				
	5701																						
05/05/75	5701		67	F			54	9.0	30	4.1	.02	183	43	22	16.0	--	+0	300	172	1.0			
	5701		19	C	7.2		2.69	.74	1.31	.10	.01	3.08	.90	.62	.26		32.0	300	21				
							56	15	27	2		63	19	13	5								
10/09/74	5701	30.5/27.0-12H02	M	64	F	7.3	405	45	6.0	23	2.1	.02	163	34	18	6.0	--	+2	247	145	0.8		
	5701		18	C	7.3		4.05	2.25	.66	1.00	.05	.01	2.67	.71	.51	13	29.0	247	12				
							57	17	25	1		66	18	13	3								
09/09/75	5701	30.5/27.0-12B01	M	67	F		27	5.0	19	1.6	.02	107	20	10	8.0	--	+2	169	68	0.9			
	5701		14	C	7.4		1.35	.41	.83	.04	.01	1.75	.42	.28	.13		26.0	169	0				
							51	16	32	2		68	16	11	5								
10/09/74	5701	30.5/27.0-11C01	M	65	F	7.0	399	41	6.0	27	2.0	.01	164	31	16	14.0	--	+2	249	135	1.0		
	5701		18	C	7.0		3.99	2.09	.66	1.17	.05	.00	2.69	.65	.45	.23		30.0	250	1			
							52	17	30	1		67	16	11	6								
02/12/75	5701	30.5/27.0-13H01	M	64	F		33	6.0	19	1.8	.05	124	22	13	5.0	--	+1	182	106	0.8			
	5701		18	C	7.8		2.95	1.65	.49	.83	.05	.02	2.03	.46	.37	.08		22.0	183	5			
							55	16	27	2	1	69	16	13	3								
02/18/75	5701	30.5/27.0-13H02	M	66	F		26	5.0	19	1.8	.08	118	19	12	6.0	--	+2	174	92	0.9			
	5701		19	C	8.0		263	1.40	.41	.83	.05	.03	1.93	.40	.34	.10		24.0	174	0			
							52	15	31	2	1	69	14	12	4								
10/09/74	5701	30.5/27.0-14H02	M	64	F	7.6	267	28	5.0	18	1.9	.03	114	18	12	1.0	--	+2	166	90	0.8		
	5701		18	C	7.6		267	1.40	.41	.78	.05	.01	1.97	.37	.34	.02		25.0	165	0			
							53	18	30	2		72	14	13	1								
02/12/75	5701		64	F			26	4.0	17	1.6	.06	106	16	11	2.0	--	+2	156	82	0.8			
	5701		18	C	7.9		238	1.30	.43	.74	.04	.02	1.74	.33	.31	.03		26.0	156	0			
							54	14	31	2	1	72	14	13	1								
06/26/75	5121	30.5/27.0-18C01	M				53	6.0	27	2.9	0	174	37	21	21.4	+11	--	260	170	0.9			
	5006				7.4		440	2.64	.73	1.17	.07	.00	2.92	.77	.62	.35		29.0	285	23			
							57	16	25	2			63	17	13	8							
06/20/75	5121	30.5/27.0-20F01	M				25	6.0	25	3.0	0	128	35	14	13.7	+26	--	188	95	1.1			
	5191				7.4		388	1.25	.66	1.09	.08	.00	2.10	.73	.40	.22		187	0				
							41	21	35	3		61	21	12	6								
07/07/75	5701	30.5/27.0-23C02	M	68	F		36	6.0	21	2.1	.07	126	29	15	3.0	--	+2	192	114	0.9			
	5701		20	C	7.9		315	1.80	.49	.91	.05	.02	2.07	.60	.42	.05		18.0	193	10			
							55	15	28	2	1	66	19	13	2								
05/05/75	5701	30.5/27.0-23C03	M	64	F		38	5.0	22	2.0	.04	136	29	14	4.0	--	+2	206	116	0.9			
	5701		18	C	7.6		332	1.90	.41	.96	.05	.01	2.23	.68	.39	.06		24.0	205	4			
							57	12	29	2		68	18	12	2								

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSES OF DRILL CORES																							
DATE TIME	SAMPLER LAB	TEMP LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					REM					
			CA	MG	NA	K	PERCENT REACTIVE VALUE	CO ₃	HCO ₃	SO ₄	CL	NO ₃	8	F	TDS SUM	TM NCM	5AR						
CENTRAL VALLEY SAN JOAQUIN VALLEY																							
07/07/75	5701	305/27E-23C04	M	67 F	19 C	7.7	337	34	0.0	21	2.1	.5	136	31	17	8.0	--	+1	213	124	10	0.8	
	5701							1.95	.49	.91	.05	.02	2.23	.65	.48	.13		21.0	212				
								57	14	27	1	1	84	19	14	4							
03/24/75	5701	305/27E-23D01	M	64 F	18 C	7.7	248	27	3.0	19	1.4	.3	102	18	12	4.0	--	+2	155	82	0	0.9	
	5701							1.35	.25	.83	.04	.01	1.87	.37	1.4	.06		19.0	154				
								50	10	14	2		88	15	14	2							
02/12/75	5701	305/28E-05R01	M	70 F	21 C	8.0	510	54	10	33	2.0	.9	133	45	58	3.0	--	+1	322	178	85	1.1	
	5701							2.59	.82	1.44	.07	.03	2.18	.94	1.64	.37		30.0	322				
								54	10	29	1	1	42	18	32	7							
09/10/75	5701	305/28E-05C01	M	67 F	19 C	7.4	537	63	11	32	2.7	.3	175	49	44	30.0	--	+1	335	202	58	1.0	
	5701							3.14	.90	1.39	.07	.01	2.87	1.02	1.24	.32		27.0	335				
								57	16	25	1		53	19	23	8							
01/13/75	5701	305/28E-05E01	M	66 F	19 C	7.4	415	46	8.0	25	2.7	.2	132	35	30	8.0	--	+1	251	148	40	0.9	
	5701							2.30	.86	1.19	.17	.01	2.16	.73	1.02	.13		24.0	250				
								56	16	26	2		53	18	25	3							
02/03/75	5701	305/28E-05F01	M	68 F	20 C	7.9	165	38	0.0	27	2.5	.7	123	34	26	12.0	+11	+1	230	120	18	1.1	
	5701							1.90	.49	1.17	.06	.02	2.02	.71	.73	.19		24.0	231				
								52	14	32	2	1	55	19	20	5							
03/24/75	5701	305/28E-05K01	M	68 F	20 C	8.0	164	39	5.0	29	2.0	.9	125	41	21	8.0	--	+1	230	120	14	1.2	
	5701							1.95	.41	1.20	.05	.03	2.05	.85	.59	.13		22.0	229				
								53	11	34	1	1	56	23	16	4							
02/12/75	5701	305/28E-05H01	M	70 F	21 C	8.2	294	23	2.0	27	1.8	1.1	105	20	15	3.0	--	+2	161	88	0	1.5	
	5701							1.15	.10	1.17	.05	.04	1.72	.42	.42	.05		17.0	162				
								8	46	2	2	65	16	16	2								
09/10/75	5701	305/28E-06C02	M	66 F	19 C	7.0	198	47	8.0	24	2.7	.1	151	36	21	14.0	--	+1	252	144	19	0.9	
	5701							2.30	.49	1.04	.07	.00	2.47	.75	.59	.23		26.0	251				
								59	12	26	2		61	19	15	6							
05/05/75	5701	305/28E-06C03	M	66 F	19 C	7.4	371	41	5.0	25	2.4	.2	124	26	32	3.0	--	+1	220	122	21	1.0	
	5701							2.05	.41	1.09	.06	.01	2.03	.54	.90	.05		24.0	220				
								57	11	30	2		58	18	25	1							
08/04/75	5701	305/28E-06G02	M	67 F	19 C	7.2	407	46	0.0	25	3.0	.2	151	40	27	4.0	--	+2	251	148	24	0.9	
	5701							2.30	.46	1.06	.08	.01	2.47	.83	.76	.06		23.0	250				
								56	16	26	2		60	20	18	1							
03/24/75	5701	305/28E-06H02	M	68 F	19 C	7.6	290	30	5.0	22	2.2	.3	112	25	17	6.0	+14	+2	188	96	3	1.0	
	5701							1.50	.41	.96	.06	.01	1.84	.52	.48	.10		26.0	189				
								51	14	13	2		67	18	16	3							
09/09/75	5701	305/28E-07C01	M	68 F	20 C	7.2	378	42	8.0	23	2.2	.1	139	34	22	13.0	--	+1	240	138	24	0.9	
	5701							2.10	.45	1.00	.06	.00	2.28	.71	.62	.21		27.0	240				
								55	17	26	2		60	19	16	5							
07/07/75	5701	305/28E-07E01	M	68 F	20 C	7.4	127	37	0.0	21	2.3	.2	127	29	18	7.0	--	+2	204	118	13	0.8	
	5701							1.85	.49	.91	.06	.01	2.08	.40	.51	.11		22.0	205				
								36	15	27	2		63	18	15	3							
10/07/74	5701	305/28E-08B01	M	--	--	--	--	--	--	--	--	--	--	--	--	--		.08	--				
	5701																						
07/07/75	5701			69 F	21 C	7.9	550	59	7.0	42	3.3	.7	128	46	43	12.0	--	+1	341	176	70	1.4	
	5701							2.94	.58	1.83	.08	.02	2.18	2.00	1.13	.19		18.0	341				
								54	11	34	1		39	37	21	3							
01/13/75	5701	305/28E-08H02	M	72 F	22 C	7.9	322	26	4.0	32	2.0	.5	99	25	25	12.0	+13	+2	193	82	0	1.5	
	5701							1.30	.33	1.39	.07	.02	1.62	.52	.71	.19		18.0	194				
								42	11	45	2	1	53	17	23	6							
10/09/74	5701	305/28E-17A01	M	70 F	21 C	7.9	492	35	12	42	3.5	.7	131	40	43	26.0	--	+3	296	135	29	1.6	
	5701							1.75	.49	1.43	.09	.02	2.15	.83	1.21	.42		30.0	297				
								36	21	19	2		46	18	26	9							
05/05/75	5701			70 F	21 C	7.8	523	43	9.0	47	5.0	.6	138	46	46	32.0	--	+3	328	144	31	1.7	
	5701							2.15	.74	2.04	.13	.02	2.26	.96	1.30	.20		32.0	328				
								42	15	40	3		45	19	26	10							
09/09/75	5701	305/28E-18H01	M	66 F	19 C	7.3	395	46	7.0	25	1.8	.2	146	30	20	17.0	--	+2	253	144	24	0.9	
	5701							2.35	.58	1.43	.09	.05	.01	2.39	.81	.56	.27		25.0	253			
								57	14	27	1		59	20	14	7							
02/12/75	5701	305/28E-18E01	M	67 F	19 C	7.8	318	34	6.0	20	1.5	.5	128	24	14	6.0	--	+2	195	108	4	0.8	
	5701							1.70	.49	.87	.04	.02	2.10	.50	.39	.10		26.0	195				
								55	16	28	1	1	68	16	13	3							

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH FC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REM		
				CA	MG	NA	K	CO3	WCO3	SO4	CL	NO3	B	F	TDS SUM		TH MCM	SAR
CENTRAL VALLEY SAN JUAN VALLEY																		
06/26/75	5121 5006	31.5/206=25401	M	7.9	580	2.89 47	1.00 16	2.09 34	.17 3	0	222 3.64	73 1.52	31 1.52	.17 10	--	347 367	196 13	1.5
06/26/75	5121 5006	31.5/206=24901	M	7.5	580	6.7 50	11 16	35 26	4.3 2	0	211 58	73 25	27 13	14.0 4	.17 29.0	338 365	217 43	1.0
06/26/75	5121 5006	31.5/206=32941	M	7.7	430	31 1.55 35	4.0 17	46 45	5.3 3	0	167 2.74 62	48 1.00 23	19 9.3 12	.15 3	--	252 276	115 0	1.9
06/26/75	5121 5191	31.5/206=32941	M	8.0	450	30 1.50 33	4.6 17	50 2.18 47	5.2 13	0	175 2.87 51	100 2.08 39	12 38 7	2.2 1	.33 --	296 297	114 0	2.0
06/26/75	5121 5191	31.5/246=22901	M	8.1	8600	500 7.34 34	120 43.84 12	1010 80 53	23 1	0	8 3.08 57	2100 43.72 57	1140 32.15 42	49.8 1	3.80 --	5030 5017	1092 1492	10.1
06/26/75	5121 5191	31.5/256=11001	M	8.0	490	13 1.50 9	2 1.03 40	111 1.01 40	4.5 1	0	101 1.66 29	110 2.29 40	64 1.81 31	.05 1	.65 --	347 347	26 0	9.5
06/26/75	5121 5191	31.5/256=11001	M	8.0	330	3.0 1.5 5	1 1.01 3	72 3.13 94	1.0 1	0	6.8 2.0 1	45 1.5 25	17 10 13	.5 1	.55 --	208 208	8 0	11.1
06/26/75	5121 5191	31.5/206=25401	M	7.9	380	7.5 1.37 11	1.0 1.08 2	63 2.74 84	3.5 1	0	101 1.66 50	64 1.33 10	12 35 19	.9 1	.53 --	203 203	23 0	5.7
06/26/75	5121 5191	31.5/206=27402	M	7.1	440	15 1.75 20	5 2.01 2	67 2.06 77	2.5 2	0	67 2.6 26	132 1.10 66	10 2.75 8	.5 1	.45 --	262 262	40 0	4.8
06/26/75	5121 5006	31.5/206=30002	M	8.2	360	8.0 1.40 11	1 1.01 1	74 3.22 86	1.5 1	0	118 1.88 49	81 1.69 46	6.0 5	.5 1	.34 23.0	226 249	20 0	7.1
06/26/75	5121 5191	31.5/206=31001	M	7.9	460	4.5 1.47 12	1.0 1.08 2	75 3.26 84	3.2 2	0	114 1.87 47	90 1.87 47	7.1 2.0 1	.5 1	.51 --	244 243	28 0	6.2
06/26/75	5121 5006	31.5/206=36401	M	7.4	730	10 1.50 15	1.1 1.09 3	64 2.78 82	1.2 1	0	96 1.57 46	74 1.54 45	9.6 2.7 8	.5 1	.15 26.0	209 234	30 0	5.1
06/26/75	5121 5006	31.5/276=02001	M	7.4	340	38 1.40 56	6 1.01 16	21 1.74 27	2.4 2	0	153 2.51 73	24 1.5 15	11 8.5 9	.65 1	.13 26.0	186 211	123 0	0.8
06/26/75	5121 5006	31.5/276=04001	M	7.7	240	23 1.15 50	2.5 1.21 9	21 1.91 19	2.0 2	0	118 1.88 77	17 1.35 15	6.0 1.7 1	.5 1	.13 24.0	126 150	68 0	1.1
06/26/75	5121 5006	31.5/276=10002	M	7.6	520	92 3.04 58	3 1.73 14	32 1.39 26	3.2 2	0	181 2.97 56	82 1.71 32	20 6.5 11	.5 2	.15 28.0	305 332	194 44	1.0
06/26/75	5121 5191	31.5/276=12002	M	7.7	450	55 2.74 54	6.5 1.53 10	40 1.74 34	4.0 2	0	168 2.75 58	52 1.6 23	16 10.6 10	.66 4.3	.25 --	284 283	164 26	1.4
06/26/75	5121 5006	31.5/276=14001	M	8.0	440	45 2.25 50	5.6 1.46 10	40 1.74 18	2.4 2	0	176 2.88 64	51 1.08 23	20 1.9 13	.9 1	.19 28.0	253 280	136 0	1.5
06/26/75	5121 5191	31.5/276=16002	M	7.4	130	10 1.50 32	1.0 1.15 10	20 1.87 56	1.7 3	0	80 1.98 54	35 1.7 40	3.5 1.0 1	.5 1	.30 --	103 102	32 0	1.5
06/26/75	5121 5191	31.5/276=19001	M	7.3	680	70 3.49 50	8.0 1.96 11	45 1.96 31	4.5 2	0	228 3.74 53	110 2.29 34	32 9.3 13	.93 1	.30 --	393 391	208 21	1.4
06/26/75	5121 5191	31.5/276=17001	M	7.7	700	75 3.74 60	5.0 1.41 7	45 1.86 11	5.0 13	0	235 3.85 53	120 2.50 34	28 1.1 1	5.3 1	.26 --	402 400	208 15	1.4

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSES OF GROUNDWATER																				
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER WILLIGRAMS PER LITER				MILLIGRAMS PER LITER WILLIGRAMS PER LITER				REM				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM		TH NCH	SAR		
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
06/20/75	314/27E-29F01 5121 5191	M	7.7	850	90 44.9 54	0.0 1.8 6	73 38 1	4.8 12 1	0 0.00	289 4.74 61	110 2.29 30	25 71 9	.4 .01	.20	--	454 452	249 12	2.0		S
06/20/75	314/27E-30AN1 5121 5191	M	7.8	370	40 20.0 43	3.8 .31 4.3	53 2.31 49	2.0 .05 1	0 0.00	154 2.82 58	82 1.29 29	19 .58 13	.5 .01	.29	--	258 257	116 0	2.1		C
06/26/75	315/27E-31CN1 5121 5496	M	7.7	320	13 65 20	.8 .07 2	56 2.44 76	1.2 0 1	0 0.00	116 1.90 60	46 .96 30	11 .32 10	.5 .01	.21	--	187 213	36 0	4.1		
06/26/75	315/28E-13Hu7 5121 5496	M	7.9	690	64 3.14 43	4.7 .90 11	89 3.80 42	5.5 15 2	0 0.00	293 3.33 47	99 2.06 29	42 1.20 17	34.5 .8	.23	--	426 447	200 33	2.1		
06/26/75	315/28E-16F01 5121 5496	M	7.5	890	81 4.04 46	9.0 .74 8	5.3 3.92 44	0 15 2	0 0.00	142 2.33 26	149 3.10 35	120 3.40 38	.5 .01	.15	--	526 547	240 123	2.5		
06/26/75	315/28E-31001 5121 5496	M	7.9	340	25 1.25 30	2.4 .20 6	46 2.00 67	1.7 0 1	0 0.00	121 1.98 57	42 .87 25	21 .61 18	.5 .01	.15	--	200 218	73 0	2.4		
06/26/75	315/28E-33J03 5121 5496	M	8.0	290	8.0 4.0 15	1.9 .15 6	46 2.00 76	2.8 .07 3	0 0.00	111 1.82 69	33 2.04 26	3.9 .11 4	.5 .01	.13	--	151 161	28 0	3.8		
06/26/75	315/28E-36AN1 5121 5496	M	7.9	280	84 4.0 16	2.1 .17 7	44 1.91 75	3.2 0 1	0 0.00	99 1.82 64	29 2.04 24	11 .32 13	.9 .01	.11	--	148 157	26 0	3.6		
05/23/75	315/29E-02AN1 5121 5496	M	7.5	850	77 3.86 44	24 1.97 23	60 2.61 30	8.1 .21 2	0 0.00	267 4.38 51	98 2.04 24	46 1.31 15	58.5 .94	.22	--	505 526	293 72	1.5		
05/23/75	315/29E-03AN2 5121 5496	M	7.5	690	55 2.74 43	24 1.97 28	59 2.18 31	8.0 .20 3	0 0.00	250 4.18 58	81 1.89 24	19 .58 8	48.4 .78	.18	--	411 431	238 31	1.4		
05/23/75	315/29E-04P01 5121 5496	M	7.4	590	53 2.64 43	11 .95 15	56 2.44 19	7.0 .18 3	0 0.00	201 3.24 53	72 1.50 24	48 1.37 22	4.0 .06	.22	--	352 373	180 15	1.8		
06/26/75	315/29E-07AN1 5121 5496	M	8.0	620	56 2.74 44	13 1.12 18	51 2.72 35	6.4 .18 3	0 0.00	264 3.34 54	81 1.89 27	31 .88 14	24.2 .39	.15	--	366 386	197 29	1.6		
05/23/75	315/29E-11001 5121 5496	M	7.4	860	82 4.07 47	17 1.40 14	78 3.05 15	7.0 .18 2	0 0.00	256 4.20 48	97 2.02 23	59 1.69 19	41.5 .83	.18	--	512 532	276 65	1.8		
06/26/75	315/29E-16CR0 5121 5496	M	7.9	740	72 3.59 48	16 1.34 18	54 2.15 32	4.5 .17 2	0 0.00	225 3.49 49	79 1.64 22	47 1.33 18	50.3 .81	.09	--	437 458	248 82	1.5		
06/26/75	315/29E-19R01 5121 5496	M	7.9	730	58 2.89 39	4.4 .77 19	82 3.57 49	5.2 .13 2	0 0.00	207 3.39 46	82 1.71 23	80 1.71 23	34.5 .56	.59	--	436 459	184 14	2.6		
06/26/75	325/20E-04G01 5121 5496	M	7.3	1350	154 7.08 57	6.6 .54 4	170 5.22 39	6.0 .15 1	0 0.00	72 1.18 9	578 12.03 88	12 .34 2	3.7 .06	.38	--	916 939	413 352	2.6		
06/26/75	325/20E-19R01 5121 5496	M	7.5	1100	100 4.4 1	1.7 .54 1	150 6.53 24	3.7 .09 1	0 0.00	78 1.15 10	519 10.81 90	3.5 .10 1	.5 .01	.57	--	819 835	272 214	4.0		E
05/23/75	325/20E-25P01 5121 5496	M	7.7	1400	150 7.44 46	13 1.14 7	172 7.44 46	8.2 .21 1	0 0.00	45 1.56 10	693 14.43 88	12 .34 2	.5 .01	.33	--	1097 1114	433 354	3.6		
06/26/75	325/27E-03P01 5121 5496	M	7.4	430	30 1.50 34	6.6 .54 12	62 2.26 52	3.1 .08 2	0 0.00	147 2.41 55	74 1.54 35	14 .42 10	.5 .01	.30	--	255 282	103 0	2.2		
06/20/75	325/27E-14AN1 5121 5191	M	7.5	640	25 1.25 28	0.0 .68 14	63 2.74 67	5.6 .14 3	0 0.00	195 3.20 85	57 1.19 24	17 .50 10	3.1 .05 1	.45	--	277 276	95 0	2.8		

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TE	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER EQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					REM
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	A	F	TDS SUM	TH NCH	SAR		
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
06/20/75	5121 5191	32C/27E-154n1	M		35	0.0	67	5.6	0	195	110	21	5.4		.38	--	348	112		
				7.5	650	1.75	.49	2.91	.14	.00	3.26	2.29	.60	.09		--	347	0	2.4	
					33	9	45	3		52	37	10	1							
06/26/75	5121 5006	32C/27E-234n1	M		57	10	93	5.1	0	148	227	24	.4		.38	--	491	184		
				7.4	770	2.84	.62	4.55	.13	.00	2.43	4.73	.48	.01		17.0	507	62	3.0	
					38	10	52	2		31	60	9								
06/20/75	5121 5191	32C/27E-234n1	M		56	12	95	4.6	0	175	200	28	.4		.37	--	486	189		
				7.4	840	2.79	.49	4.13	.17	.00	2.87	4.16	.81	.01		--	485	46	3.0	S
					31	12	51	2		37	53	10								
06/20/75	5121 5191	32C/27E-244n1	M		71	24	113	9.5	0	191	300	30	1.3		.53	--	640	276		
				7.8	1090	3.54	1.47	4.92	.24	.00	2.97	4.25	.49	.02		--	639	127	3.0	S
					33	18	46	2		29	62	9								
05/23/75	5121 5006	32C/27E-32L01	M		166	30	190	10	0	35	814	60	5.0		.31	--	1293	540		
				7.4	1910	4.28	2.47	8.27	.26	.00	5.7	16.95	1.70	.08		.45	1293	509	3.6	
					43	13	43	1		3	88	9								
06/26/75	5121 5006	32C/26E-01P01	M		5.0	1.3	47	2.7	0	95	34	3.4	.8		.15	--	147	18		
				8.0	240	.25	.11	2.04	.07	.00	1.56	.79	.11	.01		8.0	154	0	4.4	
						10	4	A3	3		.63	32	4							
01/06/75	5003 5003	09N/20W-29R01	S		23	33	46	3.7	0	231	78	15	4.4		--	.3	3184	196		
				7.8	400	1.16	2.77	2.02	.04	.00	3.79	1.54	.44	.08		--	320	7	1.4	E
						19	46	33	1		64	28	7	1						C
09/25/75	5050 1010	5050			480	41	12	45	3.0	2.0	211	50	11	3.9	.20	--	267	152		
				8.4	475	2.05	.99	1.96	.08	.07	3.46	1.04	.31	.06		--	272	0	1.6	
						40	19	19	2	1	70	21	6	1						
09/25/75	5050 0900	09N/20W-30001	S		614	57	16	45	1.7	0	198	109	11	14.0	.10	--	336	209		
				4.3	586	2.84	1.32	1.46	.44	.00	3.25	2.27	.31	.23		--	351	46	1.4	
						46	21	42	1		54	37	5	4						
09/25/75	5050 5050	09N/21W-254C1	S		450	48	6.3	39	1.2	0	158	77	7.6	8.2	.00	--	256	146		
				8.7	452	2.40	.52	1.70	.03	.00	2.59	1.40	.21	.13		--	265	17	1.4	
						52	11	37	1		57	35	5	3						
08/05/75	5049 5006	11N/10W-14P00	S		57	16	48	--	0	314	35	11	12.4		.32	--	339	209		
				7.7	650	2.84	1.32	2.09		.00	5.15	.73	.31	.20		--	334	0	1.4	
						45	21	33			81	11	5	3						
05/23/75	5121 5006	11N/20W-13M01	S		7.8	1.6	66	4.3	0	143	43	9.2	.1		.26	--	204	26		
				7.5	360	.39	.13	2.87	.11	.00	2.34	.90	.26	.00		12.0	215	0	5.6	
						11	4	A2	3		67	26	7							
05/23/75	5121 5006	11N/20W-14M01	S		1.1	.1	310	7.6	0	143	.43	34	9.1		.49	--	926	3		
				8.1	1340	.05	.01	13.49	.19	.00	2.34	16.26	.46	.15		19.0	945	0	75.9	
								.89	1		17	75	7	1						

TABLE E-2

MINOR ELEMENT ANALYSES OF GROUND WATER

Abbreviations and Codes used in this table are:

Abbreviations

D	Dissolved Concentration
T	Total Concentration
REM	Remarks

Sampler (SAMP) and Laboratory (LAB) Codes

5701	California Water Service Company
5803	Hornkohl Laboratory

TABLE E-2
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB DEPTH	DISCH FC	TEMP °F	ARSENIC	BARIUM CALCIUM	CHROM (HEX)	PER LITR COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS
CENTRAL VALLEY SAN JOAQUIN VALLEY											
09/11/75	5701 5701		68 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.04 T	
05/27/75	5701 5701		70 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
08/18/75	5701 5701		68 F	--	--	--	1.01 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
09/11/75	5701 5701		70 F	--	--	--	1.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
03/03/75	5701 5701		68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
09/16/75	5701 5701			0.002 T	0.13 0.000 T	0.002 T	-- --	0.00 T --	0.000 T 0.000 T	-- --	
07/02/75	5701 5701		70 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
05/27/75	5701 5701		69 F	--	--	--	1.00 T 0.02 T	-- 0.00 T	--	-- 0.03 T	
04/01/75	5701 5701		67 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
03/03/75	5701 5701		69 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
05/22/75	5701 5701			0.003 T	0.00 T 0.000 T	0.001 T	-- --	0.000 T --	0.000 T 0.000 T	-- --	
08/18/75	5701 5701		71 F	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	-- 0.03 T	
04/01/75	5701 5701		67 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
08/18/75	5701 5701		71 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.01 T	
10/07/74	5701 5701	41.4	67 F	--	--	--	0.02 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
05/29/75	5701 5701		68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
04/19/75	5701 5701			--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.03 T	
07/03/75	5701 5701		67 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
04/16/75	5701 5701		66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
05/29/75	5701 5701		67 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.01 T	
01/17/75	5701 5701		65 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
10/07/74	5701 5701	28.5	67 F	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	-- 0.04 T	

TABLE E-2 (Continued)
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	S&P LAB	DEPTH FEET	DISCH EC	TEMP °F	ARSENIC	BARIUM	CADMIUM	CHROMIUM (ALL)	CHROMIUM (HEX)	REM LITER COPPER (PPM)	LEAD	MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY															
18C/25E-14701 M															
04/16/75	57J1			65 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.01 T	
18C/25E-14702 M															
10/08/74	57J1			66 F	--	--	--	--	--	0.02 T	--	--	--	--	
5701		237		7.2	--	--	--	--	--	0.10 T	0.00 T	--	--	0.07 T	
02/04/75 57J1															
5701				64 F	--	--	--	--	--	0.00 T	0.00 T	--	--	0.02 T	
06/04/74 57J1															
5701					0.002 T	0.07 T	0.001 T	--	--	0.000 T	0.000 T	0.000 T	--	--	
18C/25E-19401 M															
04/17/75	57J1			66 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.00 T	
18C/25E-20E01 M															
02/25/75	57J1				0.0030 T	0.04 T	0.000 T	--	--	0.00 T	0.00 T	0.000 T	0.0016 T	0.00 T	
5701						0.000 T	--	--	--	0.00 T	0.00 T	--	--	--	
18C/25E-23C01 M															
09/29/75	57J1			60 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.12 T	0.02 T	--	--	0.01 T	
18C/25E-27401 M															
09/02/75	57J1			65 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.02 T	
18C/25E-27P01 M															
09/02/75	57J1			65 F	--	--	--	--	--	0.01 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.04 T	
18C/25E-28001 M															
04/16/75	57J1			64 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.00 T	
18C/25E-29401 M															
03/21/75	57J1			64 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.05 T	
18C/25E-29H01 M															
05/29/75	57J1			64 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.03 T	
18C/25E-29C01 M															
02/04/75	57J1			64 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.02 T	
18C/25E-29R01 M															
02/04/75	57J1			64 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.02 T	
18C/25E-30F01 M															
03/21/75	57J1			64 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.01 T	
18C/25E-30P01 M															
10/07/74	57J1			66 F	--	--	--	--	--	0.01 T	--	--	--	--	
5701		398		7.3	--	--	--	--	--	0.00 T	0.00 T	--	--	0.09 T	
09/02/75 57J1															
5701				66 F	--	--	--	--	--	0.00 T	--	--	--	--	
18C/25E-30H02 M															
05/29/75	57J1			67 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.03 T	
18C/25E-31401 M															
02/04/75	57J1			65 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.02 T	
04/17/75 57J1															
5701					0.000 T	0.04 T	0.000 T	--	--	--	--	0.000 T	--	--	
18C/25E-31403 M															
09/02/75	57J1			66 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.01 T	
18C/25E-31E01 M															
09/02/75	57J1			66 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.02 T	
18C/25E-31K01 M															
02/04/75	57J1			65 F	--	--	--	--	--	0.00 T	--	--	--	--	
5701					--	--	--	--	--	0.00 T	0.00 T	--	--	0.05 T	

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER														
DATE TIME	S&P LAB	DEPTH	DISCH EC	TEMP PH	CONSTITUENTS IN MILLIGRAMS PER LITER					LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS	
					ARSENIC	BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)	COPPER IRON						
CENTRAL VALLEY SAN JOAQUIN VALLEY														
14S/25E-31401 M														
03/19/75	5711					0.001 T	0.000 T	0.001 T	0.00 T	0.000 T	0.000 T	--		
5701												0.01 T		
14S/25E-32E11 M														
05/29/75	5711			65 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.01 T		
14S/25E-32E12 M														
05/29/75	5711			65 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.01 T		
14S/25E-32G01 M														
04/18/75	5711			66 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.02 T		
09/19/75	5711					0.000 T	0.10 T	0.000 T	--	0.00 T	--	--		
5701									--	--	0.000 T	--		
14S/25E-32K01 M														
07/03/75	5711			66 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.00 T		
14S/24E-01G01 M														
07/03/75	5701			65 F	--	--	--	--	0.00 T	--	--	--		
5701					--	--	--	--	0.00 T	0.00 T	--	0.00 T		
14S/24E-01Q01 M														
04/16/75	5701			64 F	--	--	--	--	0.00 T	--	--	--		
5701					--	--	--	--	0.00 T	0.00 T	--	0.00 T		
14S/24E-02H01 M														
09/02/75	5711			67 F	--	--	--	--	0.00 T	--	--	--		
5701					--	--	--	--	0.00 T	0.00 T	--	0.01 T		
14S/25E-05H11 M														
10/07/74	5711			65 F	--	--	--	--	0.00 T	--	--	--		
5711			21P		--	--	--	--	0.00 T	0.00 T	--	0.01 T		
10/07/74	5711					0.000 T	0.05 T	0.000 T	0.00 T	0.00 T	0.0005 T	--		
5711									--	--	0.000 T	0.03 T		
07/03/75	5711			66 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.01 T	--	0.06 T		
14S/25E-06E01 M														
07/03/75	5711			66 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.01 T	--	0.06 T		
14S/25E-06H01 M														
07/03/75	5711			65 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.03 T		
14S/25E-07A01 M														
04/16/75	5701			65 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.04 T		
14S/25E-10E12 M														
10/07/74	5711			67 F	--	--	--	--	0.00 T	--	--	--		
5711			197		--	--	--	--	0.00 T	0.00 T	--	0.01 T		
02/04/75	5711			65 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.02 T		
14S/25E-19E01 M														
04/17/75	5711			65 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.03 T		
24S/27E-23H01 M														
02/12/75	5711			66 F	--	--	--	--	0.00 T	--	--	--		
5701					--	--	--	--	0.00 T	0.00 T	--	0.00 T		
24S/27E-24H01 M														
10/09/74	5711			63 F	--	--	--	--	0.00 T	--	--	--		
5711			227		--	--	--	--	0.00 T	0.00 T	--	0.04 T		
03/24/75	5711			62 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.00 T	0.00 T	--	0.01 T		
24S/27E-25H02 M														
05/12/75	5711			64 F	--	--	--	--	0.00 T	--	--	--		
5701						0.000 T	0.17 T	0.000 T	0.00 T	0.00 T	0.000 T	--		
5701									0.00 T	0.00 T	0.000 T	0.00 T		
24S/27E-25H01 M														
08/04/75	5711			65 F	--	--	--	--	0.00 T	--	--	--		
5711					--	--	--	--	0.10 T	0.00 T	--	0.04 T		

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS SODIUM CALCIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HFA)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
29S/27E-25R01 M												
01/13/75	S701			65 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.03 T	
29S/27E-26J01 M												
07/07/75	S711			65 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.04 T	
29S/27E-35A02 M												
08/04/75	S711			68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.06 T	
29S/27E-35F01 M												
03/24/75	S701			65 F	--	--	--	0.00 T 0.00 T	-- 0.04 T	--	-- 0.03 T	
29S/27E-35G01 M												
08/04/75	S711			67 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.06 T	
29S/27E-36H01 M												
09/09/75	S711			67 F	--	--	--	0.01 T 0.01 T	-- 0.00 T	--	-- 0.00 T	
29S/27E-36K01 M												
10/18/74	S711			65 F 7.4	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
08/04/75	S711			66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
29S/27E-36K02 M												
10/18/74	S711			66 F 7.4	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
03/24/75	S701			65 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.01 T	
29S/28E-16E01 M												
08/04/75	S711			66 F	--	--	--	0.00 T 0.04 T	-- 0.10 T	--	-- 0.05 T	
29S/28E-16H01 M												
02/12/75	S701			71 F	0.0000 T	0.14 T 1.000 T	0.000 T	0.00 T 0.00 T	0.000 T 0.004 T	0.0000 T 0.0010 T	-- 0.01 T	
02/18/75	S701			70 F	--	--	--	0.00 T 0.00 T	-- 0.004 T	--	-- 0.02 T	
29S/28E-16Q01 M												
06/04/75	S711			78 F	--	--	--	0.00 T 0.02 T	-- 0.01 T	--	-- 0.01 T	
29S/28E-16R01 M												
07/07/75	S711			78 F	--	--	--	0.01 T 0.02 T	-- 0.009 T	--	-- 0.02 T	
29S/28E-17Q01 M												
06/04/75	S701			70 F	--	--	--	0.00 T 0.06 T	-- 0.00 T	--	-- 0.03 T	
29S/28E-19J02 M												
01/13/75	S711			67 F	--	--	--	0.00 T 0.00 T	-- 0.002 T	--	-- 0.04 T	
29S/28E-19J03 M												
01/13/75	S711			69 F	--	--	--	0.01 T 0.00 T	-- 0.003 T	--	-- 0.03 T	
29S/28E-19L01 M												
03/24/75	S701			65 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.01 T	
29S/28E-19N02 M												
08/04/75	S711			68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.04 T	
29S/28E-19Q01 M												
06/04/75	S711			66 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.00 T	
29S/28E-20A01 M												
02/12/75	S711			73 F	--	--	--	0.00 T 0.03 T	-- 0.007 T	--	-- 0.00 T	

TABLE E-2 (Continued)

MINOM ELEMENT ANALYSIS OF GROUND WATER

DATE	TIME	SAMP LAB	DEPTH	DISCH EC	TEMP	CONSTITUENTS IN MILLION(S)				PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS
						ARSENIC	BARIUM	CADMIUM	CHROM (ALL) CHROM (MCA)					
CENTRAL VALLEY SAN JOAQUIN VALLEY														
245/20L=200p2 M														
03/24/75	5701	5701	72	F	--	--	--	--	0.00 T 0.00 T	-- 0.10 T	--	--	0.01 T	
245/20L=200p1 M														
05/05/75	5701	5701	76	F	--	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	--	0.01 T	
245/20L=200p1 M														
05/05/75	5701	5701	72	F	--	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	--	0.00 T	
245/20L=210p1 M														
07/07/75	5701	5701	77	F	--	--	--	--	0.01 T 0.00 T	-- 0.12 T	--	--	0.04 T	
245/20L=210p1 M														
07/07/75	5701	5701	76	F	--	--	--	--	0.00 T 0.00 T	-- 0.09 T	--	--	0.07 T	
245/20L=210p1 M														
03/24/75	5701	5701	76	F	--	--	--	--	0.00 T 0.00 T	-- 0.02 T	--	--	0.01 T	
245/20L=210p1 M														
05/05/75	5701	5701	70	F	--	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	--	0.01 T	
245/20L=214p1 M														
01/13/75	5701	5701	76	F	--	--	--	--	0.00 T 0.00 T	-- 0.04 T	--	--	0.04 T	
245/20L=200p1 M														
01/13/75	5701	5701	70	F	--	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	--	0.00 T	
245/20L=200p1 M														
06/04/75	5701	5701	70	F	--	--	--	--	0.00 T 0.00 T	-- 0.02 T	--	--	0.02 T	
245/20L=200p1 M														
06/04/75	5701	5701	70	F	--	--	--	--	0.00 T 0.02 T	-- 0.00 T	--	--	0.09 T	
245/20L=200p1 M														
06/04/75	5701	5701	00	F	0.00 T	0.03 T 0.009 T	--	--	0.00 T 0.02 T	0.000 T 0.04 T	0.000 T 0.0005 T	--	0.03 T	
245/20L=300p1 M														
09/09/75	5701	5701	00	F	--	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	--	0.02 T	
245/20L=300p2 M														
06/04/75	5701	5701	00	F	--	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	--	0.02 T	
245/20L=300p1 M														
07/07/75	5701	5701	07	F	--	--	--	--	0.01 T 0.02 T	-- 0.00 T	--	--	0.01 T	
245/20L=300p1 M														
07/07/75	5701	5701	00	F	--	--	--	--	0.01 T 0.02 T	-- 0.01 T	--	--	0.00 T	
245/20L=300p2 M														
11/11/75	5701	5701	00	F	0.00 T	0.00 T	--	--	0.00 T 0.00 T	-- 0.00 T	--	--	0.02 T	
245/20L=300p2 M														
05/05/75	5701	5701	00	F	--	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	--	0.07 T	
245/20L=300p2 M														
06/04/75	5701	5701	00	F	--	--	--	--	0.00 T 0.04 T	-- 0.00 T	--	--	0.05 T	
245/20L=300p2 M														
08/04/75	5701	5701	00	F	--	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	--	0.00 T	
245/20L=310p2 M														
06/04/75	5701	5701	00	F	--	--	--	--	0.00 T 0.02 T	-- 0.00 T	--	--	0.02 T	

TABLE E-2 (Continued)
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
06/04/75	5731	5701		66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.00 T	
295/28E-31804 M												
05/05/75	5731	5701		67 F	0.000 T	0.17 0.000 T	0.000 T	0.00 T 0.00 T	0.000 T 0.00 T	0.000 T	-- 0.03 T	
295/28E-31602 M												
01/13/75	5731	5701		67 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.04 T	
03/13/75	5731	5701		67 F	0.0040 T	0.000 T 0.000 T	0.001 T	0.00 T 0.00 T	0.000 T 0.00 T	0.0000 T	-- 0.00 T	
295/28E-31J02 M												
01/13/75	5731	5731			0.000 T	0.000 T 0.000 T	0.000 T	-- --	0.00 T 0.00 T	0.000 T 0.000 T	--	
01/13/75	5731	5731		68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
295/28E-31K02 M												
08/04/75	5731	5731		69 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.05 T	
295/28E-31Q03 M												
03/24/75	5731	5731		66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.01 T	
295/28E-32001 M												
06/04/75	5731	5731		70 F	--	--	--	0.00 T 0.03 T	-- 0.01 T	--	-- 0.02 T	
295/28E-32L01 M												
08/04/75	5731	5731		71 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
295/28E-32M01 M												
07/07/75	5731	5731		70 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.04 T	
295/28E-32R02 M												
08/04/75	5731	5731		71 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.03 T	
295/28E-34J01 M												
05/14/75	5731	5731		77 F	--	--	--	0.02 T 0.04 T	-- 0.02 T	--	-- 0.06 T	
295/28E-35E03 M												
05/05/75	5731	5731		78 F	--	--	--	0.01 T 0.00 T	-- 0.00 T	--	-- 0.04 T	
05/14/75	5731	5731		79 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
305/27E-01R02 M												
05/05/75	5731	5731		66 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.03 T	
305/27E-01G02 M												
06/04/75	5731	5731		68 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.03 T	
305/27E-01J01 M												
07/07/75	5731	5731		66 F	--	--	--	0.00 T 0.00 T	-- 0.01 T	--	-- 0.01 T	
305/27E-01K01 M												
05/05/75	5731	5731		67 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.02 T	
305/27E-01M01 M												
09/09/75	5731	5731		65	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.05 T	
305/27E-02A02 M												
01/13/75	5731	5731		65 F	--	--	--	0.00 T 0.00 T	-- 0.00 T	--	-- 0.05 T	
305/27E-02F01 M												
08/04/75	5731	5731		67 F	--	--	--	0.00 T 0.02 T	-- 0.00 T	--	-- 0.05 T	

TABLE E-2 (Continued)

MINOR ELEMENT ANALYSIS OF GROUND WATER																				
DATE	SAMP	ISCH	TEMP	CONSTITUENTS IN MILLIGRAMS PER LITER															REM	
TIME	LAB	DEPTH	EC	ARSENIC	BARIUM	CHROM (ALL)	COPPER	LEAD	MANGANESE	MERCURY	SILVER	ZINC								
CENTRAL VALLEY SAN JOAQUIN VALLEY																				
316/27L-02H01 M																				
09/09/75	57J1		67 F	--	--	--	1.00 T	--	--	--	0.05 T									
	57J1			--	--	--	0.00 T	0.00 T	--	--	--									
316/27L-02P01 M																				
10/09/74	57J1	342	05 F	--	--	--	1.00 T	--	--	--	--									
	57J1		7.2	--	--	--	1.00 T	0.00 T	--	--	0.00 T									
316/27L-11H01 M																				
10/09/74	57J1	341	05 F	--	--	--	1.00 T	--	--	--	--									
	57J1		7.2	--	--	--	1.00 T	0.00 T	--	--	0.00 T									
316/27E-11D02 M																				
02/12/75	57J1		65 F	--	--	--	1.00 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.00 T									
316/27E-11H01 M																				
10/09/74	57J1	454	66 F	--	--	--	1.00 T	--	--	--	--									
	57J1		7.1	1.0040 T	0.000 T	0.002 T	1.00 T	0.00 T	0.000 T	0.0000 T	--									
316/27E-12L02 M																				
10/07/74	57J1			0.0031 T	0.12 T	0.000 T	0.00 T	0.00 T	0.0000 T	--	--									
	57J1			--	--	--	--	--	--	--	--									
05/05/75	57J1		67 F	--	--	--	0.01 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.00 T									
316/27E-12H02 M																				
10/09/74	57J1	415	64 F	--	--	--	1.00 T	--	--	--	--									
	57J1		7.3	--	--	--	1.01 T	0.00 T	--	--	0.00 T									
316/27L-12H01 M																				
09/09/75	57J1		67 F	--	--	--	0.01 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.01 T									
316/27L-13C01 M																				
10/09/74	57J1	394	65 F	--	--	--	1.00 T	--	--	--	--									
	57J1		7.1	--	--	--	1.00 T	0.00 T	--	--	0.00 T									
316/27L-13H01 M																				
02/12/75	57J1		64 F	--	--	--	1.00 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.00 T									
316/27L-13H02 M																				
02/18/75	57J1		66 F	--	--	--	1.00 T	--	--	--	--									
	57J1			1.0030 T	0.000 T	0.002 T	1.00 T	0.00 T	0.000 T	0.0000 T	0.0000 T	--								
316/27L-14H02 M																				
10/09/74	57J1	262	64 F	--	--	--	1.00 T	--	--	--	--									
	57J1		7.6	--	--	--	1.00 T	0.00 T	--	--	0.00 T									
02/12/75	57J1		64 F	--	--	--	1.00 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.00 T									
316/27L-23C02 M																				
07/07/75	57J1		68 F	--	--	--	1.00 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.01 T									
316/27L-23C03 M																				
05/05/75	57J1		64 F	--	--	--	1.00 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.00 T									
316/27E-23C04 M																				
07/07/75	57J1		67 F	--	--	--	1.00 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.00 T									
316/27L-23H01 M																				
03/24/75	57J1		64 F	--	--	--	1.00 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.01 T									
316/28E-05H01 M																				
02/12/75	57J1		70 F	--	--	--	1.01 T	--	--	--	--									
	57J1			--	--	--	1.00 T	0.00 T	--	--	0.03 T									
316/28E-05C01 M																				
09/10/75	57J1		67 F	--	--	--	1.01 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.05 T									
316/28E-05L01 M																				
01/13/75	57J1		66 F	--	--	--	1.00 T	--	--	--	--									
	57J1			--	--	--	0.00 T	0.00 T	--	--	0.04 T									
316/28E-05F01 M																				
02/03/75	57J1		68 F	--	--	--	1.01 T	--	--	--	--									
	57J1			1.0040 T	0.000 T	0.002 T	1.00 T	0.00 T	0.000 T	0.0000 T	0.0000 T	--								

TABLE E-2 (Continued)
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	NISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
305/28E-05K01 M												
03/24/75	5701	68	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.01 T	
305/28E-05K01 M												
02/12/75	5701	70	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-06C02 M												
09/10/75	5701	66	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-06C03 M												
05/05/75	5701	66	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-06G02 M												
08/04/75	5701	67	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.05 T	
305/28E-06H02 M												
03/24/75	5701	66	F	--	0.000 T	0.00 T	0.000 T	0.00 T	0.00 T	0.0000 T	--	--
	5701							0.00 T	0.01 T	0.000 T	0.00 T	
305/28E-07C01 M												
09/09/75	5701	68	F	--	--	--	--	0.01 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.07 T	
305/28E-07E01 M												
07/07/75	5701	68	F	--	--	--	--	0.01 T	--	--	--	--
	5701							0.07 T	0.00 T	--	0.00 T	
305/28E-08H01 M												
10/07/74	5701				0.0119 T	--	0.001 T	0.00 T	0.00 T	0.0000 T	--	--
	5701							--	--	0.000 T	0.00 T	
07/07/75	5701	69	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.05 T	0.02 T	--	0.00 T	
305/28E-08H02 M												
01/13/75	5701	72	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
305/28E-17A01 M												
10/09/74	5701	70	F	--	--	--	--	0.00 T	--	--	--	--
	5701	492						0.00 T	0.00 T	--	0.00 T	
05/05/75	5701	70	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.02 T	
305/28E-18B01 M												
09/09/75	5701	66	F	--	--	--	--	0.01 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.02 T	
305/28E-18E01 M												
02/12/75	5701	67	F	--	--	--	--	0.00 T	--	--	--	--
	5701							0.00 T	0.00 T	--	0.00 T	
09H/20E-29P01 S												
01/06/75	5803				0.01 T	--	--	--	--	--	--	--
	5803							0.1 T	0.0 T	--	--	

TABLE E-3
SUPPLEMENTAL MINOR ELEMENT ANALYSES OF GROUND WATER

Abbreviations and Codes used in this table are:

Abbreviations

T	Total Concentration
REM	Remarks

Sampler (SAMP) and Laboratory (LAB) Codes

5701	California Water Service Company
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TABLE E-3
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	UTCH FC	TEMP PH	ALUMINUM	CONSTITUENTS ANTIMONY BERYLLIUM	IN MILLIGRAMS RISMUTH CORALIT	PER LITER GALLIUM OF RHANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
09/11/75	57J1 57J1		156/22E-31461	M 68 F	--	--	--	--	0.000 T	--	--	
05/27/75	57J1 57J1		156/22E-32L01	M 70 F	--	--	--	--	0.002 T	0.22 T	--	
08/18/75	57J1 57J1		166/22E-05CE1	M 68 F	--	--	--	--	0.004 T	0.24 T	--	
09/11/75	57J1 57J1		166/22E-05CE2	M 70 F	--	--	--	--	0.000 T	0.20 T	--	
03/03/75	57J1 57J1		166/22E-05E11	M 68 F	--	--	--	--	0.004 T	0.26 T	--	
07/02/75	57J1 57J1		166/22E-05E02	M 70 F	--	--	--	--	0.000 T	0.12 T	--	
05/27/75	57J1 57J1		166/22E-05H01	M 69 F	--	--	--	--	0.004 T	0.32 T	--	
04/01/75	57J1 57J1		166/22E-06601	M 67 F	--	--	--	--	0.004 T	0.52 T	--	
03/03/75	57J1 57J1		166/22E-06K01	M 69 F	--	--	--	--	0.002 T	0.22 T	--	
04/18/75	57J1 57J1		166/22E-06H01	M 71 F	--	--	--	--	0.004 T	0.30 T	--	
04/01/75	57J1 57J1		166/22E-07401	M 67 F	--	--	--	--	0.006 T	0.44 T	--	
08/18/75	57J1 57J1		166/22E-07CE2	M 71 F	--	--	--	--	0.002 T	0.16 T	--	
10/07/75	57J1 57J1		166/22E-26LE1	M 67 F 7.0	--	--	--	--	0.002 T	0.44 T	--	
05/29/75	57J1 57J1		166/22E-26LE1	M 68 F	--	--	--	--	0.002 T	0.36 T	--	
04/19/75	57J1 57J1		166/22E-27802	M 67 F	--	--	--	--	0.004 T	0.28 T	--	
07/03/75	57J1 57J1		166/22E-35401	M 67 F	--	--	--	--	0.002 T	0.24 T	--	
04/16/75	57J1 57J1		166/22E-36CE1	M 66 F	--	--	--	--	0.000 T	0.28 T	--	
05/29/75	57J1 57J1		166/22E-36LE1	M 67 F	--	--	--	--	0.002 T	0.32 T	--	
01/17/75	57J1 57J1		166/22E-36H01	M 65 F	--	--	--	--	0.000 T	0.34 T	--	
10/07/75	57J1 57J1		166/22E-36H01	M 67 F 7.0	--	--	--	--	0.002 T	0.36 T	--	
04/16/75	57J1 57J1		166/22E-36H01	M 65 F	--	--	--	--	0.002 T	0.24 T	--	

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISC EC	TEMP PH	ALUMINUM	ANTIMONY	BERYLLIUM	RISMUTH CORAL	PER LITER GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STROMTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY													
18C/25E-14H02 M													
10/08/74	5701		237	68 F 7.2	--	--	--	--	--	0.000 T	--	--	
02/04/75	5701			64 F	--	--	--	--	--	0.000 T	0.20 T	--	
18C/25E-14H03 M													
04/17/75	5701			66 F	--	--	--	--	--	0.001 T	--	--	
18C/25E-20E01 M													
02/25/75	5701				--	--	--	--	--	0.002 T	--	--	
18C/25E-23C01 M													
09/24/75	5701			60 F	--	--	--	--	--	0.002 T	--	--	
18C/25E-27H01 M													
09/02/75	5701			65 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-27P01 M													
09/02/75	5701			65 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-28001 M													
04/16/75	5701			64 F	--	--	--	--	--	0.002 T	--	--	
18C/25E-28H01 M													
03/21/75	5701			64 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-28H01 M													
05/29/75	5701			64 F	--	--	--	--	--	0.002 T	--	--	
18C/25E-29C01 M													
02/04/75	5701			64 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-29H01 M													
02/04/75	5701			64 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-30F01 M													
03/21/75	5701			66 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-30H01 M													
10/07/74	5701		390	66 F 7.0	--	--	--	--	--	0.002 T	--	--	
09/02/75	5701			66 F	--	--	--	--	--	0.012 T	--	--	
18C/25E-30H02 M													
05/29/75	5701			67 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-31H01 M													
02/04/75	5701			65 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-31H03 M													
09/02/75	5701			66 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-31E01 M													
09/02/75	5701			66 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-31K01 M													
02/04/75	5701			65 F	--	--	--	--	--	0.000 T	--	--	
18C/25E-31H01 M													
03/19/75	5701				--	--	--	--	--	0.000 T	--	--	
18C/25E-32E01 M													
05/29/75	5701			65 F	--	--	--	--	--	0.002 T	--	--	

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISC EC	TEMP PH	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM	BI SMITH CORAL	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
185/25E-32E02 M												
05/29/75	57J1			65 F	--	--	--	--	0.000 T	--	--	
	57J1								--	0.26 T	--	
185/25E-37G01 M												
04/18/75	57J1			66 F	--	--	--	--	0.001 T	--	--	
	57J1								--	0.30 T	--	
185/25E-37K01 M												
07/03/75	57J1			66 F	--	--	--	--	0.003 T	--	--	
	57J1								--	0.22 T	--	
195/24E-01001 M												
07/03/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1								--	0.54 T	--	
195/24E-01101 M												
04/16/75	57J1			64 F	--	--	--	--	0.004 T	--	--	
	57J1								--	0.56 T	--	
195/24E-027001 M												
09/02/75	57J1			67 F	--	--	--	--	0.000 T	--	--	
	57J1								--	0.42 T	--	
195/25E-05801 M												
10/07/74	57J1			65 F	--	--	--	--	0.000 T	--	--	
	57J1	210							--	0.24 T	--	
07/03/75	57J1			66 F	--	--	--	--	0.00 T	--	--	
	57J1								--	0.26 T	--	
195/25E-06E01 M												
07/03/75	57J1			66 F	--	--	--	--	0.000 T	--	--	
	57J1								--	0.22 T	--	
195/25E-06M01 M												
07/03/75	57J1			65 F	--	--	--	--	0.002 T	--	--	
	57J1								--	0.38 T	--	
195/25E-07401 M												
04/16/75	57J1			65 F	--	--	--	--	0.001 T	--	--	
	57J1								--	0.44 T	--	
195/25E-10F02 M												
10/07/74	57J1			67 F	--	--	--	--	0.000 T	--	--	
	57J1	147							--	0.36 T	--	
195/25E-10E03 M												
04/17/75	57J1			65 F	--	--	--	--	0.002 T	--	--	
	57J1								--	0.42 T	--	
195/27E-23H01 M												
02/12/75	57J1			66 F	--	--	--	--	0.006 T	--	--	
	57J1								--	0.22 T	--	
195/27E-24401 M												
10/09/74	57J1			63 F	--	--	--	--	0.005 T	--	--	
	57J1	227							--	0.20 T	--	
03/24/75	57J1			62 F	--	--	--	--	0.006 T	--	--	
	57J1								--	0.02 T	--	
205/27E-25002 M												
05/12/75	57J1			64 F	--	--	--	--	0.000 T	--	--	
	57J1								--	0.26 T	--	
245/27E-25001 M												
08/04/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1								--	0.23 T	--	
245/27E-25401 M												
01/13/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1								--	0.24 T	--	
245/27E-25401 M												
07/07/75	57J1			65 F	--	--	--	--	0.004 T	--	--	
	57J1								--	0.22 T	--	
245/27E-35A02 M												
08/04/75	57J1			66 F	--	--	--	--	0.006 T	--	--	
	57J1								--	0.19 T	--	
245/27E-35E01 M												
03/24/75	57J1			65 F	--	--	--	--	0.008 T	--	--	
	57J1								--	0.27 T	--	

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH FC	TEMP F	ALUMINUM	CONSTITUENTS ANTIMONY BERYLLIUM	IN MILLIGRAMS RISHUTH CORAL	PER LITER GALLIUM GERMANIUM	LITHIUM MILYTRUENIUM	NICKEL STRONTIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
295/27E-34G01 M												
08/04/75	5701			67 F	--	--	--	--	0.004 T	--	--	
	5701				--	--	--	--	--	0.19 T	--	
295/27E-36H01 M												
09/09/75	5701			67 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.02 T	--	
295/27E-36K01 M												
10/18/74	5701			65 F	--	--	--	--	0.005 T	--	--	
	5701	254		7.4	--	--	--	--	--	0.28 T	--	
08/04/75	5701			60 F	--	--	--	--	0.011 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
295/27E-36K02 M												
10/18/74	5701			66 F	--	--	--	--	0.008 T	--	--	
	5701	254		7.4	--	--	--	--	--	0.25 T	--	
03/24/75	5701			65 F	--	--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
295/28E-16E01 M												
08/04/75	5701			66 F	--	--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
295/28E-16H01 M												
02/12/75	5701			71 F	--	--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.44 T	--	
02/18/75	5701			70 F	--	--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.46 T	--	
295/28E-16Q01 M												
06/04/75	5701			70 F	--	--	--	--	0.004 T	--	--	
	5701				--	--	--	--	--	0.68 T	--	
295/28E-16Q01 M												
07/07/75	5701			74 F	--	--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.56 T	--	
295/28E-17E01 M												
06/04/75	5701			76 F	--	--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
295/28E-19J02 M												
01/13/75	5701			67 F	--	--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.22 T	--	
295/28E-19J03 M												
01/13/75	5701			69 F	--	--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.18 T	--	
295/28E-19L01 M												
03/24/75	5701			65 F	--	--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
295/28E-19Q02 M												
08/04/75	5701			68 F	--	--	--	--	0.004 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
295/28E-19Q01 M												
06/04/75	5701			66 F	--	--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.26 T	--	
295/28E-20A01 M												
02/12/75	5701			73 F	--	--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.34 T	--	
295/28E-20G02 M												
03/24/75	5701			72 F	--	--	--	--	0.000 T	--	--	
	5701				--	--	--	--	--	0.74 T	--	
295/28E-20H01 M												
05/05/75	5701			76 F	--	--	--	--	0.001 T	--	--	
	5701				--	--	--	--	--	0.46 T	--	
295/28E-20L01 M												
05/05/75	5701			72 F	--	--	--	--	0.004 T	--	--	
	5701				--	--	--	--	--	0.50 T	--	
295/28E-21C01 M												
07/07/75	5701			77 F	--	--	--	--	0.002 T	--	--	
	5701				--	--	--	--	--	0.76 T	--	

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB DEPTH	DISCH FC	TEMP PH	ALUMINUM	CONSTITUENTS IN MILLIGRAMS ANTIMONY BERYLLIUM	RISCUITH CORAL	PER LITER GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STANDIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY											
296/28E-21001 M											
07/07/75	5701		76 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.34 T	--	
296/28E-21001 M											
03/24/75	5701		76 F	--	--	--	--	0.000 T	--	--	
	5701			--	--	--	--	--	0.46 T	--	
296/28E-21001 M											
05/05/75	5701		78 F	--	--	--	--	0.004 T	--	--	
	5701			--	--	--	--	--	0.38 T	--	
296/28E-21401 M											
01/13/75	5701		76 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.34 T	--	
296/28E-20001 M											
01/13/75	5701		70 F	--	--	--	--	0.000 T	--	--	
	5701			--	--	--	--	--	0.30 T	--	
296/28E-20001 M											
06/04/75	5701		70 F	--	--	--	--	0.004 T	--	--	
	5701			--	--	--	--	--	0.34 T	--	
296/28E-20001 M											
06/04/75	5701		70 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.28 T	--	
296/28E-20001 M											
06/04/75	5701		80 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.22 T	--	
296/28E-30001 M											
09/09/75	5701		60 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.22 T	--	
296/28E-30002 M											
06/04/75	5701		66 F	--	--	--	--	0.008 T	--	--	
	5701			--	--	--	--	--	0.36 T	--	
296/28E-30001 M											
07/07/75	5701		67 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.34 T	--	
296/28E-30002 M											
07/07/75	5701		68 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.28 T	--	
296/28E-30002 M											
11/11/74	5701	324	66 F	--	--	--	--	0.002 T	--	--	
	5701		7.6	--	--	--	--	--	0.36 T	--	
296/28E-30002 M											
05/05/75	5701		66 F	--	--	--	--	0.006 T	--	--	
	5701			--	--	--	--	--	0.32 T	--	
296/28E-30002 M											
06/04/75	5701		68 F	--	--	--	--	0.010 T	--	--	
	5701			--	--	--	--	--	0.26 T	--	
296/28E-30004 M											
08/04/75	5701		68 F	--	--	--	--	0.009 T	--	--	
	5701			--	--	--	--	--	0.29 T	--	
296/28E-31002 M											
06/04/75	5701		66 F	--	--	--	--	0.008 T	--	--	
	5701			--	--	--	--	--	0.32 T	--	
296/28E-31004 M											
06/04/75	5701		66 F	--	--	--	--	0.004 T	--	--	
	5701			--	--	--	--	--	0.40 T	--	
296/28E-31002 M											
05/05/75	5701		67 F	--	--	--	--	0.014 T	--	--	
	5701			--	--	--	--	--	0.42 T	--	
296/28E-31002 M											
01/13/75	5701		67 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.20 T	--	
296/28E-31002 M											
03/13/75	5701		67 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.24 T	--	
296/28E-31002 M											
01/13/75	5701		68 F	--	--	--	--	0.002 T	--	--	
	5701			--	--	--	--	--	0.26 T	--	

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DISCH DEPTH EC	TEMP PH	ALUMINUM	ANTIMONY	BERYLLIUM	CORAL	GERMANIUM	LITHIUM	NICKEL	TITANIUM	REM
CENTRAL VALLEY SAN JOAQUIN VALLEY												
		29C/20E-31K02	M									
08/04/75	5701		69 F	--	--	--	--	--	0.013 T	--	--	
	5701								--	0.27 T	--	
		29C/20E-31Q03	M									
03/24/75	5701		66 F	--	--	--	--	--	0.012 T	--	--	
	5701								--	0.40 T	--	
		29C/20E-32D01	M									
06/04/75	5701		70 F	--	--	--	--	--	0.006 T	--	--	
	5701								--	1.44 T	--	
		29C/20E-32L01	M									
08/04/75	5701		71 F	--	--	--	--	--	0.007 T	--	--	
	5701								--	1.45 T	--	
		29C/20E-32N01	M									
07/07/75	5701		70 F	--	--	--	--	--	0.008 T	--	--	
	5701								--	0.62 T	--	
		29C/20E-32R02	M									
08/04/75	5701		71 F	--	--	--	--	--	0.010 T	--	--	
	5701								--	0.93 T	--	
		29C/20E-34J01	M									
05/14/75	5701		77 F	--	--	--	--	--	0.018 T	--	--	
	5701								--	2.00 T	--	
		29C/20E-35E03	M									
05/05/75	5701		78 F	--	--	--	--	--	0.014 T	--	--	
	5701								--	0.60 T	--	
05/14/75	5701		79 F	--	--	--	--	--	0.008 T	--	--	
	5701								--	0.62 T	--	
		31C/27E-01R02	M									
05/05/75	5701		66 F	--	--	--	--	--	0.006 T	--	--	
	5701								--	0.30 T	--	
		31C/27E-01G02	M									
06/04/75	5701		68 F	--	--	--	--	--	0.002 T	--	--	
	5701								--	0.68 T	--	
		30C/27E-01J01	M									
07/07/75	5701		66 F	--	--	--	--	--	0.010 T	--	--	
	5701								--	0.36 T	--	
		30C/27E-01K01	M									
05/05/75	5701		67 F	--	--	--	--	--	0.016 T	--	--	
	5701								--	0.46 T	--	
		30C/27E-01M01	M									
09/09/75	5701		65 F	--	--	--	--	--	0.014 T	--	--	
	5701								--	0.36 T	--	
		30C/27E-02A02	M									
01/13/75	5701		65 F	--	--	--	--	--	0.004 T	--	--	
	5701								--	0.30 T	--	
		30C/27E-02F01	M									
08/04/75	5701		67 F	--	--	--	--	--	0.008 T	--	--	
	5701								--	0.30 T	--	
		31C/27E-02H01	M									
09/09/75	5701		67 F	--	--	--	--	--	0.006 T	--	--	
	5701								--	0.38 T	--	
		30C/27E-02P01	M									
10/09/74	5701		65 F	--	--	--	--	--	0.004 T	--	--	
	5701	342	7.2	--	--	--	--	--	--	0.34 T	--	
		30C/27E-11B01	M									
10/09/74	5701		65 F	--	--	--	--	--	0.012 T	--	--	
	5701	341	7.4	--	--	--	--	--	--	0.38 T	--	
		30C/27E-11D02	M									
02/12/75	5701		65 F	--	--	--	--	--	0.004 T	--	--	
	5701								--	0.24 T	--	
		30C/27E-11R01	M									
10/09/74	5701		66 F	--	--	--	--	--	0.014 T	--	--	
	5701	444	7.1	--	--	--	--	--	--	0.45 T	--	

TABLE E-3 (Continued)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH FEET	DISC TC	TEMP F	ALUMINUM	ANTIMONY BERYLLIUM	RISMUTH CORAL	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STANTINIUM	TITANIUM VANADIUM	REM
CENTRAL VALLEY SAN JACQUIN VALLEY												
J04C/27E-12L02 M												
05/05/75	5701			67 F	--	--	--	--	0.024 T	--	--	
	5701				--	--	--	--	--	0.52 T	--	
J04C/27E-12N02 M												
10/09/74	5701			64 F	--	--	--	--	0.016 T	--	--	
	5701		405	7.3	--	--	--	--	--	0.44 T	--	
J04C/27E-12P01 M												
09/09/75	5701			67 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.24 T	--	
J04C/27E-13C01 M												
10/09/74	5701			65 F	--	--	--	--	0.015 T	--	--	
	5701		349	7.1	--	--	--	--	--	0.38 T	--	
J04C/27E-13H01 M												
02/12/75	5701			64 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
J04C/27E-13H02 M												
02/18/75	5701			66 F	--	--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.28 T	--	
J04C/27E-14H02 M												
10/09/74	5701			64 F	--	--	--	--	0.010 T	--	--	
	5701		262	7.1	--	--	--	--	--	0.26 T	--	
02/12/75	5701			64 F	--	--	--	--	0.008 T	--	--	
	5701				--	--	--	--	--	0.24 T	--	
J04C/27E-23C02 M												
07/07/75	5701			68 F	--	--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.34 T	--	
J04C/27E-23C03 M												
05/05/75	5701			64 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.36 T	--	
J04C/27E-23C04 M												
07/07/75	5701			67 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.36 T	--	
J04C/27E-23H01 M												
03/24/75	5701			64 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.22 T	--	
J04C/28E-05H01 M												
02/12/75	5701			70 F	--	--	--	--	0.012 T	--	--	
	5701				--	--	--	--	--	0.54 T	--	
J04C/28E-05C01 M												
09/10/75	5701			67 F	--	--	--	--	0.018 T	--	--	
	5701				--	--	--	--	--	0.02 T	--	
J04C/28E-05F01 M												
01/13/75	5701			66 F	--	--	--	--	0.008 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
J04C/28E-05F01 M												
02/03/75	5701			68 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.40 T	--	
J04C/28E-06K01 M												
03/24/75	5701			68 F	--	--	--	--	0.010 T	--	--	
	5701				--	--	--	--	--	0.38 T	--	
J04C/28E-06C02 M												
09/10/75	5701			66 F	--	--	--	--	0.013 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
J04C/28E-06C03 M												
05/05/75	5701			68 F	--	--	--	--	0.018 T	--	--	
	5701				--	--	--	--	--	0.40 T	--	
J04C/28E-06H02 M												
08/04/75	5701			67 F	--	--	--	--	0.014 T	--	--	
	5701				--	--	--	--	--	0.42 T	--	
J04C/28E-06H02 M												
03/24/75	5701			66 F	--	--	--	--	0.006 T	--	--	
	5701				--	--	--	--	--	0.32 T	--	

TABLE E-3 (Continued)

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER															
DATE	SAMP	DEPTH	DISCH	TEMP	CONSTITUENTS IN MILLIGRAMS PER LITER									NICKEL	TITANIUM
TIME	LAB		FC	°F	ALUMINUM	ANTIMONY	BERYLLIUM	RISMUTH	GALLIUM	LITHIUM	MOLYBDENUM	STHONIUM	Vanadium		REM
CENTRAL VALLEY SAN JOAQUIN VALLEY															
305/20E-07C01 M															
09/09/75	57J1			68 F	--	--	--	--	--	0.018 T	--	--	--	--	--
	5701				--	--	--	--	--	--	0.42 T	--	--	--	--
305/20E-07E01 M															
07/07/75	57J1			68 F	--	--	--	--	--	0.016 T	--	--	--	--	--
	5701				--	--	--	--	--	--	0.36 T	--	--	--	--
305/20E-08H01 M															
07/07/75	57J1			69 F	--	--	--	--	--	0.010 T	--	--	--	--	--
	5701				--	--	--	--	--	--	0.46 T	--	--	--	--
305/20E-08H02 M															
01/13/75	57J1			72 F	--	--	--	--	--	0.008 T	--	--	--	--	--
	0001 5701				--	--	--	--	--	--	0.26 T	--	--	--	--
305/20E-17A01 M															
10/09/74	5701			70 F	--	--	--	--	--	0.016 T	--	--	--	--	--
	5701	402		7.4	--	--	--	--	--	--	0.58 T	--	--	--	--
05/05/75	5701			70 F	--	--	--	--	--	0.020 T	--	--	--	--	--
	5701				--	--	--	--	--	--	0.60 T	--	--	--	--
305/20E-18H01 M															
09/09/75	5701			66 F	--	--	--	--	--	0.018 T	--	--	--	--	--
	5701				--	--	--	--	--	--	0.41 T	--	--	--	--
305/20E-18E01 M															
02/12/75	5701			67 F	--	--	--	--	--	0.014 T	--	--	--	--	--
	5701				--	--	--	--	--	--	0.42 T	--	--	--	--

LEGEND

———— DISTRICT OR AREA BOUNDARIES

5-22.00 NUMBERS INDICATE CODE CLASSIFICATION

FOOTHILL LINE

— BEDROCK LINE



CALIFORNIA AQUEDUCT AND TURNOUTS

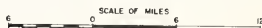
WELLS MEASURED ANNUALLY OR SEMI-ANNUALLY DATA SHOWN ON TABLE

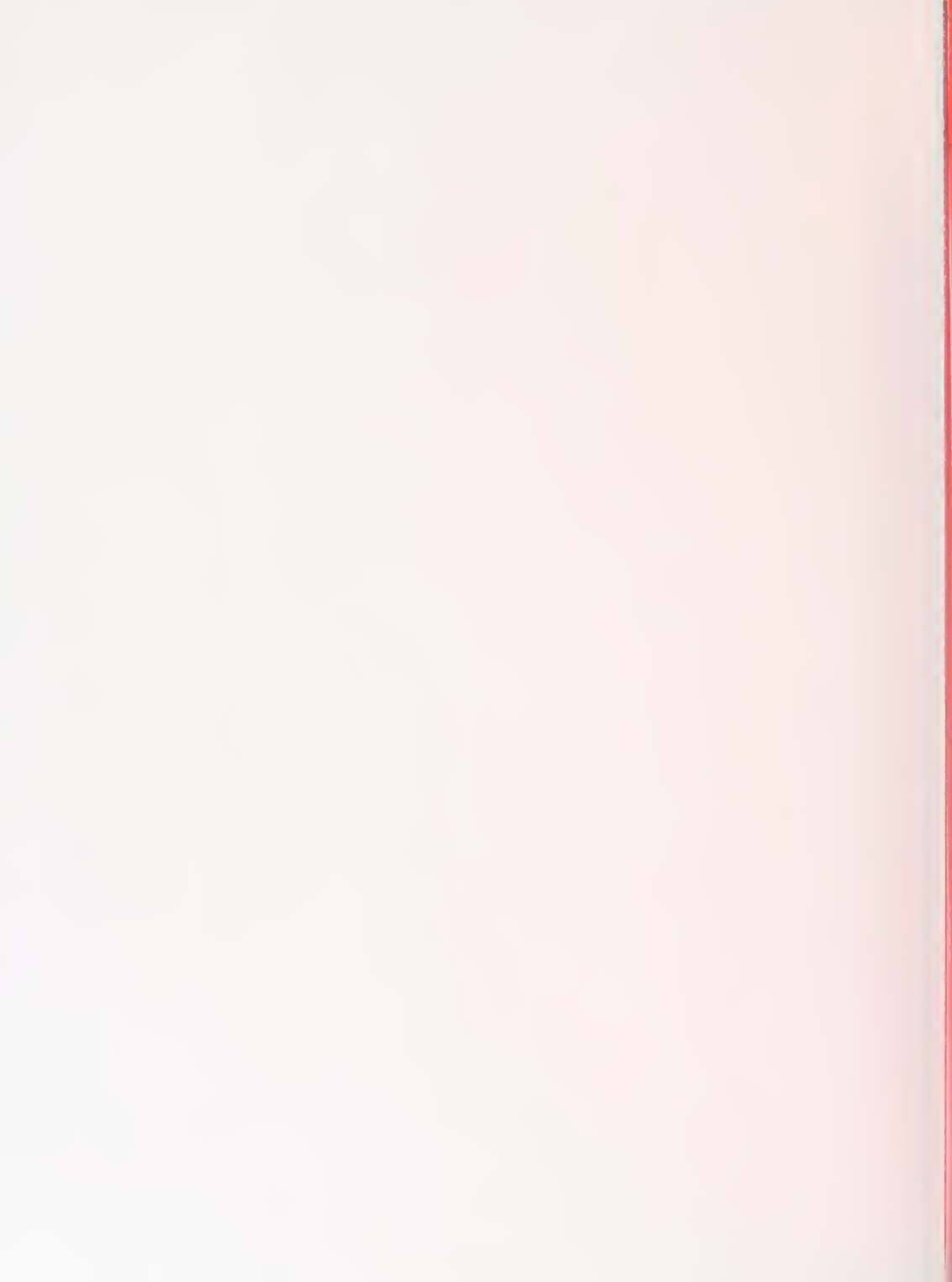


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SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1975

GROUND WATER AREAS AND SELECTED OBSERVATION WELLS





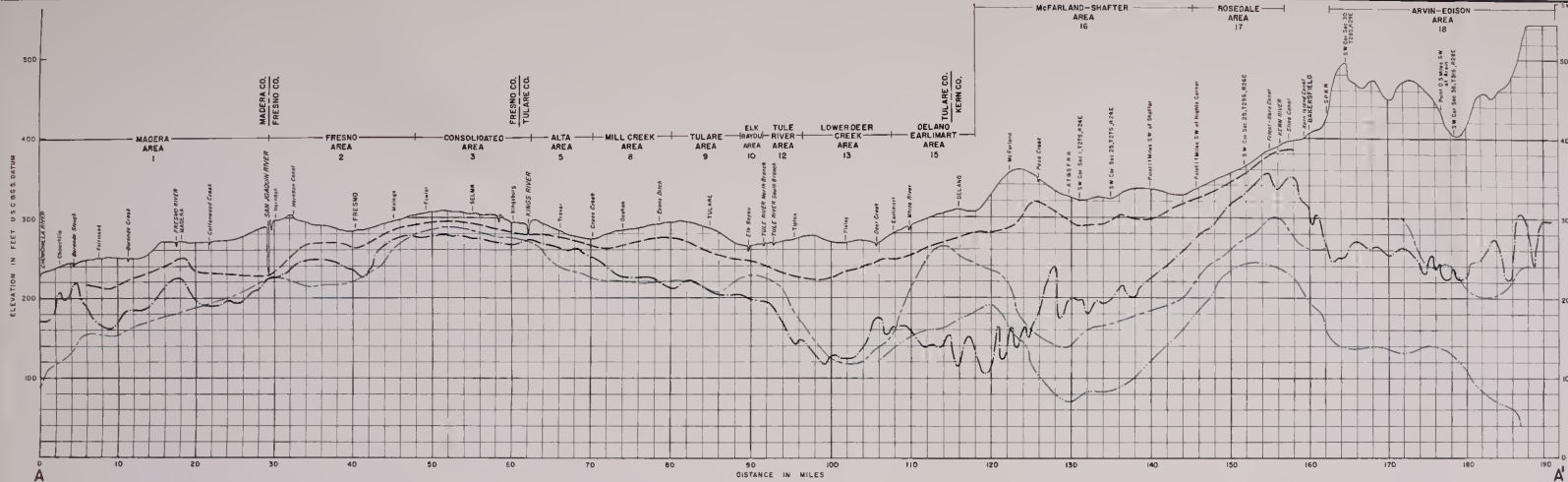


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—♦—
GROUND WATER AREAS AND
SELECTED OBSERVATION WELLS

SCALE OF SPOTS

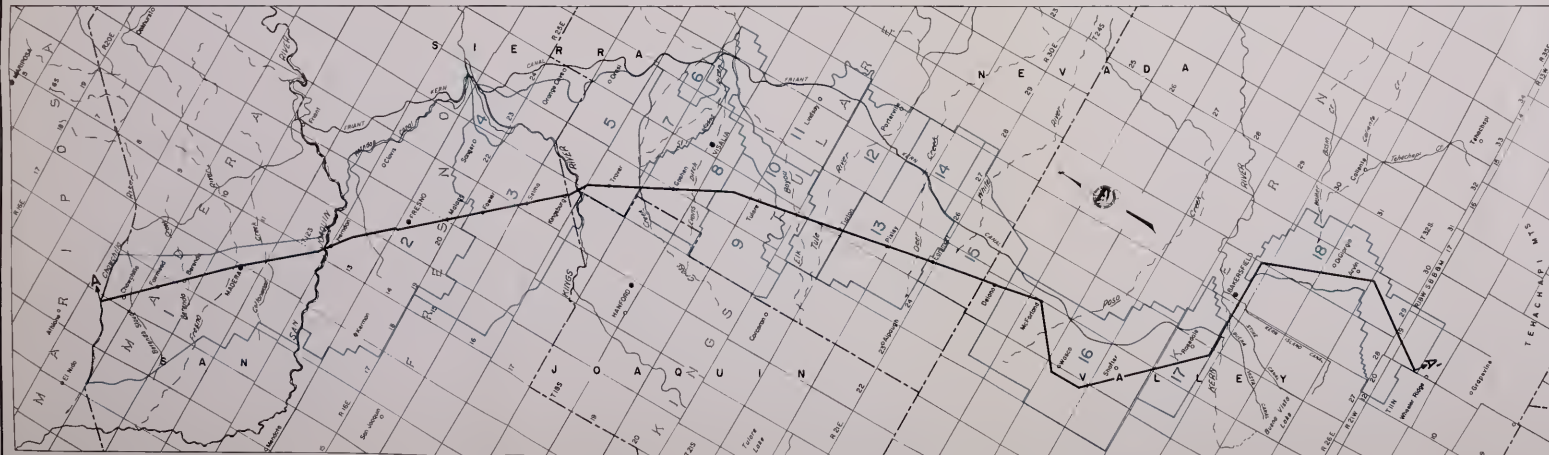






HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

- 1 MADERA
- 2 FRESNO
- 3 CONSOLIDATED
- 4 CENTERVILLE BOTTOMS
- 5 ALTA
- 6 HANHIDE
- 7 OUTSIDE IVANHIDE
- 8 MILL CREEK
- 9 TULARE
- 10 ELK BAYOU
- 11 LINDSAY-EXETER
- 12 TULARE RIVER
- 13 LOWER DEER CREEK
- 14 MIDDLE DEER CREEK
- 15 DELANO-EARLHAM
- 16 MCFARLAND-SHAFTER
- 17 ROSEDALE
- 18 ARVIN-EDISON



LEGEND

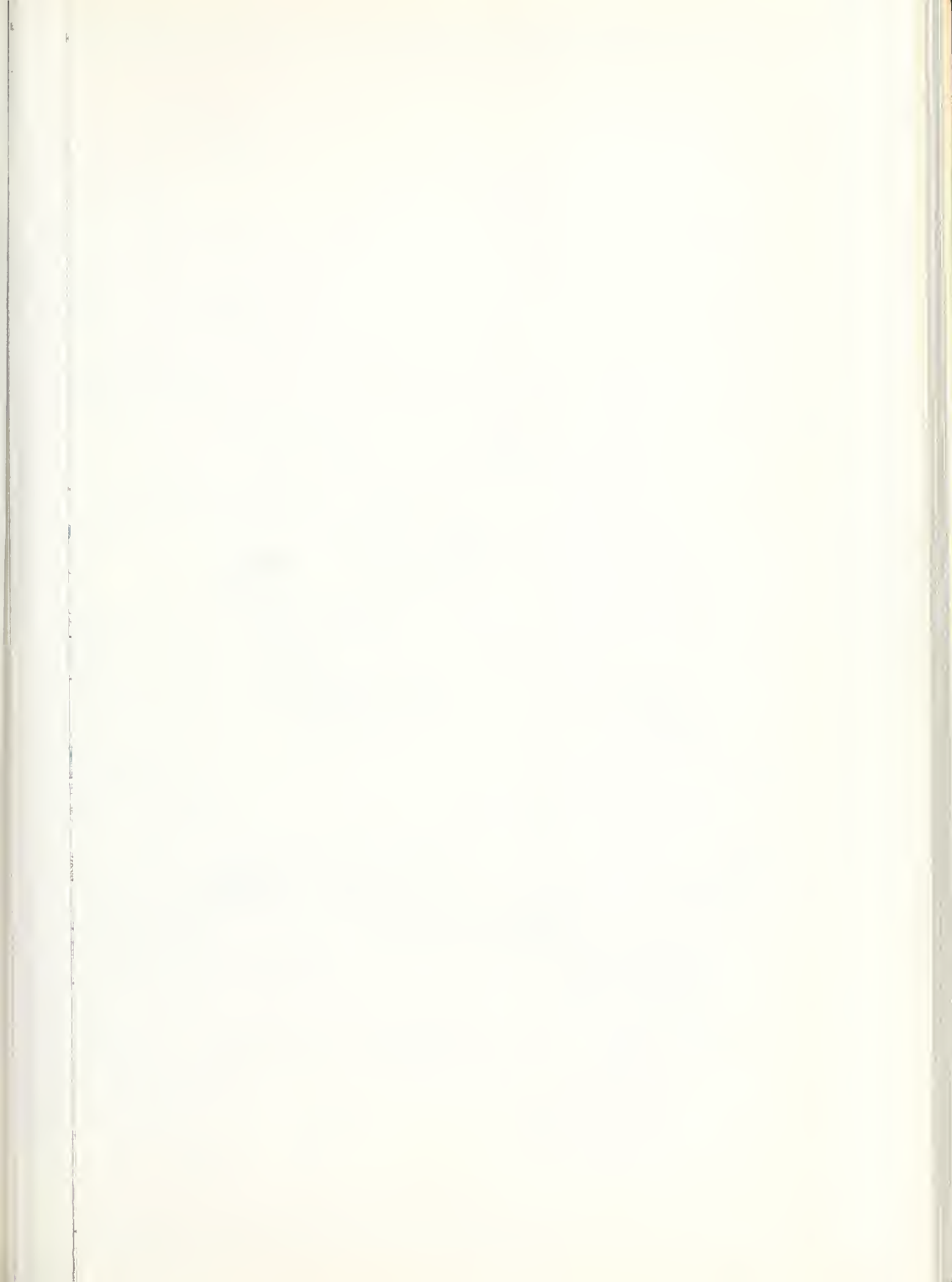
- GROUND WATER AREA BOUNDARIES
- - - GROUND WATER LEVEL, FALL 1921
- - - GROUND WATER LEVEL, FALL 1951
- - - GROUND WATER LEVEL, SPRING 1975, UNCONFINED AQUIFER
- - - GROUND WATER LEVEL, SPRING 1975, PRESSURE SURFACE
- - - GROUND WATER LEVEL PROFILE SECTION

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HYDROLOGIC DATA 1975

MAP OF SELECTED GROUND WATER AREAS
IN THE SAN JOAQUIN VALLEY
AND
PROFILES ALONG SECTION A-A' SHOWING
GROUND WATER LEVELS IN 1921, 1951 & 1975

SCALE OF MILES
0 3 6 9 12 15







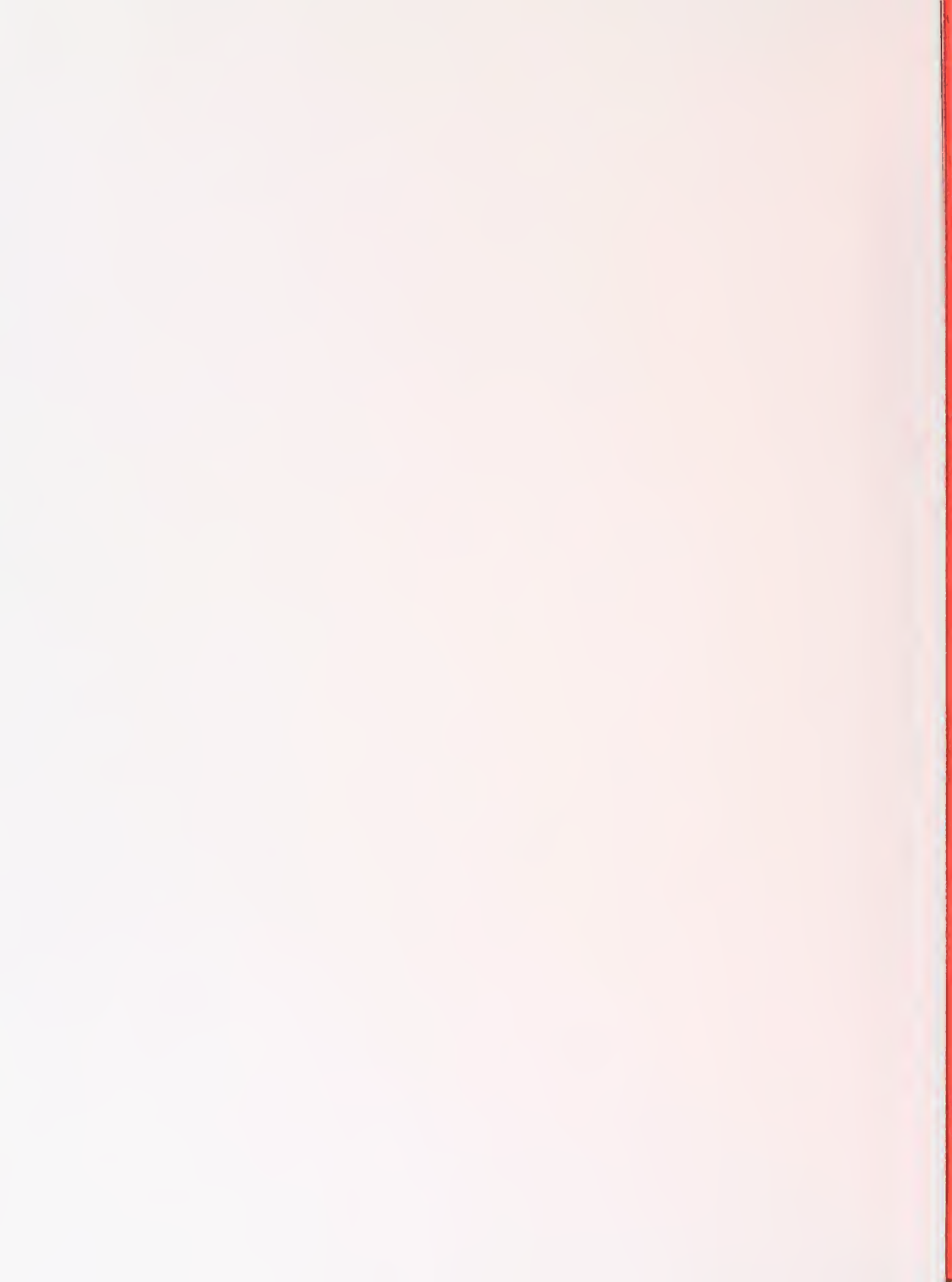


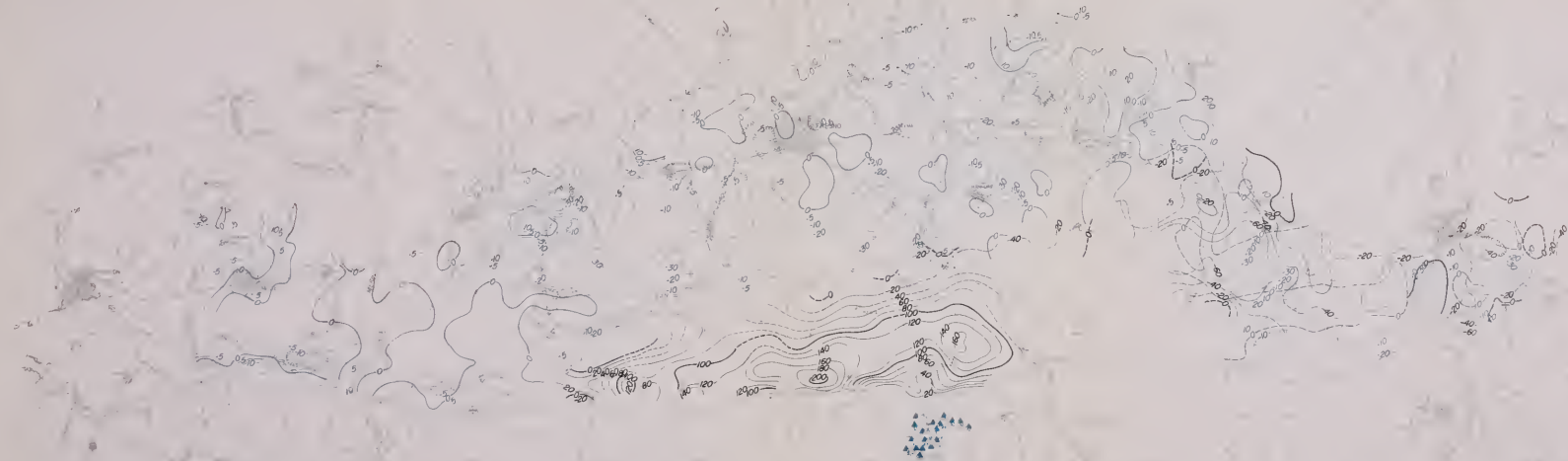
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**Lines of Equal Change
 of Water Levels in Wells**

PRESSURE SURFACE AND UNCONFINED AQUIFERS
 SAN JOAQUIN VALLEY
 SPRING 1970 TO SPRING 1975

SCALE OF MILES
 0 4 8 12





EXPLANATION

— PRESSURE SURFACE CONTOUR
 LINES OF EQUAL CHANGE OF PRESSURE SURFACE, 4 FEET PER FOOT THAT ARE CONFINED OR SEMI-CONFINED, 20 FEET PER FOOT WHERE INFERRED

- - - UNCONFINED CONTOUR
 LINES OF EQUAL CHANGE OF WATER LEVELS IN UNCONFINED AND SEMI-CONFINED AQUIFERS, CONTOUR INTERVAL 10 AND 20 FEET

— GROUND WATER BARRIER

• INDIVIDUAL WELL CHANGE

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LINE OF EQUAL CHANGE
 OF WATER LEVELS IN WELLS

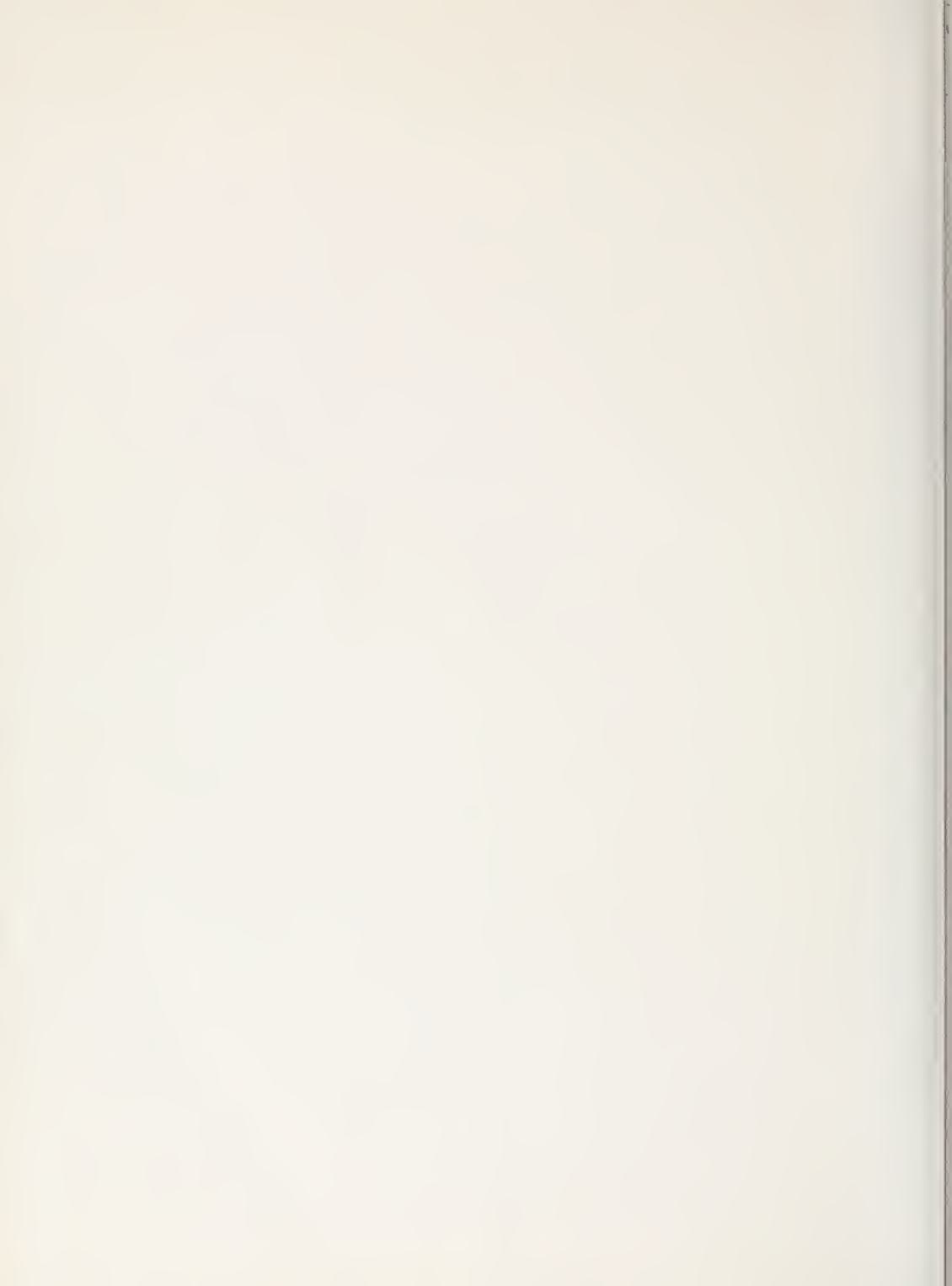
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 SAN JOAQUIN VALLEY
 SPRING 1970 TO SPRING 1975

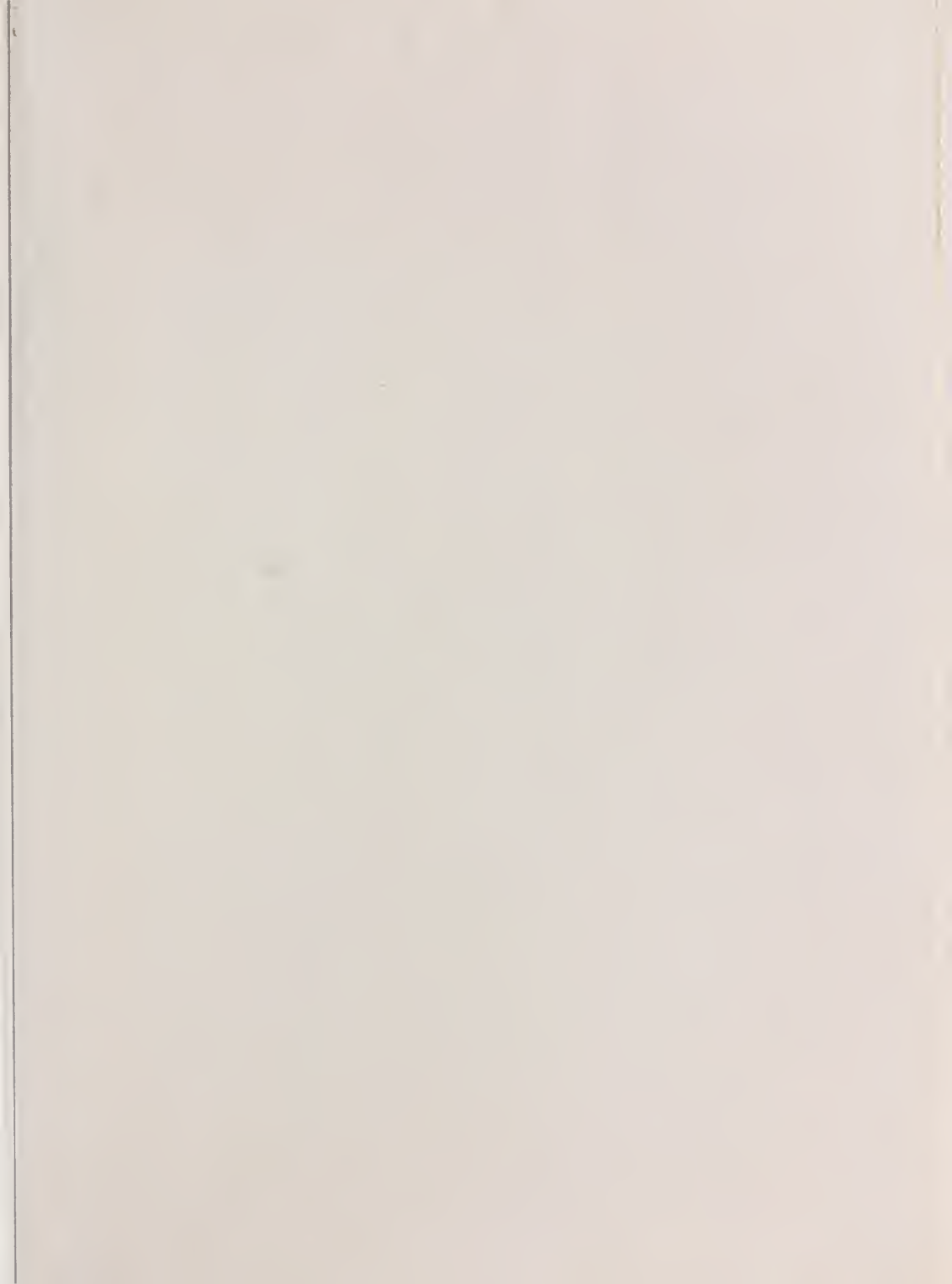
SCALE OF MILES
 0 1 2











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